

FILE 'REGISTRY' ENTERED AT 21:19:54 ON 09 AUG 2002

L1 1 S ELLAGIC ACID/CN  
L2 0 S TANNIN/CN  
L3 38 S TANNIN  
L4 0 S TANNIC ACID/CN  
L5 0 S REINOID/CN  
L6 1 S RETIN A/CN  
L7 2 S VITAMIN A/CN

FILE 'CAPLUS, BIOSIS, EMBASE, USPATFULL' ENTERED AT 21:21:54 ON 09 AUG 2002

L8 3776 S L1 OR (ELLAGIC ACID) OR (BENZOARIC ACID) OR (ELEAGIC ACID)  
OR  
L9 196094 S L6 OR L7 OR RETINOID# OR (RETINOIC ACID) OR RETINO##### OR  
(V  
L10 9 S L8 (20W) L9  
L11 7 DUPLICATE REMOVE L10 (2 DUPLICATES REMOVED)  
L12 127 S L8 AND L9  
L13 5 S L12 AND AFRICANUM  
L14 5 S L12 AND PYGEUM  
L15 0 S L13 NOT L14

L5 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2003:472982 CAPLUS  
DOCUMENT NUMBER: 139:57925  
TITLE: Topical compositions containing enzymes and salts for improvement of skin barrier function and cohesion  
INVENTOR(S): Elias, Peter M.; Feingold, Kenneth R.; Fluhr, Joachim W.; Mauro, Theodora M.; Behne, Martin J.  
PATENT ASSIGNEE(S): The Regents of the University of California, USA  
SOURCE: U.S. Pat. Appl. Publ., 14 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003113312	A1	20030619	US 2001-17038	20011214
WO 2003051296	A2	20030626	WO 2002-US39533	20021209
WO 2003051296	A3	20040115		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-17038 A 20011214  
TI Topical compositions containing enzymes and salts for improvement of skin barrier function and cohesion  
IT Mucous membrane  
(disorder; topical compns. contg. enzymes and salts for improvement of skin barrier function and cohesion)  
IT Skin  
(epidermis, disorder; topical compns. contg. enzymes and salts for improvement of skin barrier function and cohesion)  
IT Skin  
(stratum corneum; topical compns. contg. enzymes and salts for improvement of skin barrier function and cohesion)  
IT Buffers  
Skin  
Skin, disease  
(topical compns. contg. enzymes and salts for improvement of skin barrier function and cohesion)  
IT Enzymes, biological studies  
Phospholipids, biological studies  
Salts, biological studies  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical compns. contg. enzymes and salts for improvement of skin barrier function and cohesion)  
IT Drug delivery systems

(topical; topical compns. contg. enzymes and salts for  
**improvement** of skin barrier function and **cohesion**)

IT 71-52-3, Bicarbonate, biological studies 77-92-9, biological studies  
 506-87-6, Ammonium carbonate 631-61-8, Ammonium acetate 1132-61-2,  
 MOPS 2644-64-6, Dipalmitoylphosphatidylcholine 4432-31-9, MES  
 5625-37-6, 1,4-Piperazinediethanesulfonic acid 6484-52-2, Ammonium  
 nitrate, biological studies 7365-44-8, TES 7365-45-9, HEPES  
 7632-50-0, Ammonium citrate 7783-20-2, Ammonium sulfate, biological  
 studies 9001-84-7, Phospholipase A2 9013-93-8, Phospholipase  
 9043-29-2, Phospholipase A1 10124-31-9, Ammonium phosphate  
 12027-06-4,  
 Ammonium iodide 12124-97-9, Ammonium bromide 12125-01-8, Ammonium  
 fluoride 12125-02-9, Ammonium chloride, biological studies  
 14265-44-2,  
 Phosphate, biological studies 14307-43-8, Ammonium tartrate  
 17026-44-7, Ammonium sulfonate  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (topical compns. contg. enzymes and salts for **improvement** of  
 skin barrier function and **cohesion**)

IT 544724-10-9 544724-11-0  
 RL: PRP (Properties)  
 (unclaimed sequence; topical compns. contg. enzymes and salts for  
**improvement** of skin barrier function and **cohesion**)

L5 ANSWER 2 OF 16 USPATFULL on STN  
 ACCESSION NUMBER: 2003:3130 USPATFULL  
 TITLE: Use of dictyotal extracts in the production of a  
 topical composition  
 INVENTOR(S): Gutierrez, Gilles, Lyon, FRANCE  
 Serrar, Mostafa, Saint Bonnet De Mure, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003003164	A1	20030102
APPLICATION INFO.:	US 2001-914823	A1	20011005 (9)
	WO 2001-FR67		20010110

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2000-238	20000110
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIERMAN MUSERLIAN AND LUCAS, 600 THIRD AVENUE, NEW YORK, NY, 10016	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	381	
SUMM . . .	CK1 and CK10, and the increase of desmosomal proteins to contribute to the consolidation of the stratified structure of the <b>epidermis</b> .	
SUMM	[0005] The <b>epidermis</b> which represents the surface section of the skin is formed from a succession of several layers of keratinocytes that are. . .	
SUMM	[0007] This stratified structure of the suprabasal layers of the <b>epidermis</b> can be modulated by several factors and particularly by soluble or ionic calcium--as opposed to fixed calcium: in the presence. . .	

SUMM [0013] The maturation of keratinocytes results at tissue level in an improvement in the attachment and cohesion of the cells, linked with an increase in the expression of desmosomial proteins. The maturation of Keratinocytes is very active. . .

L5 ANSWER 3 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:129693 USPATFULL  
TITLE: Comixture of dextran sulfate/escin for treating skin redness/edema and/or sensitive skin  
INVENTOR(S): Renault, Beatrice, Saint Maurice, FRANCE  
PATENT ASSIGNEE(S): Societe L'Oreal S.A., Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6562355	B1	20030513
APPLICATION INFO.:	US 2000-684986		20001010 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1999-12589	19991008
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Tran, S.	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	627	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . but also by bags and/or dark rings and/or edema, of more persistent discomfort reflecting a greater metabolic depletion of the epidermis and the dermis.

SUMM . . . blood circulation (EP-158,090 and U.S. Pat. No. 4,983,626), in compositions for treating the skin such as anti-inflammatory agents (EP-728,472), for improving the cohesion between the dermis and the epidermis (WO-98/19664) and in skin-lightening cosmetic compositions (JP-07,076,512).

L5 ANSWER 4 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:81467 USPATFULL  
TITLE: Transdermal therapeutic system containing the active substance scopolamine base  
INVENTOR(S): Muller, Walter, Neuwied, GERMANY, FEDERAL REPUBLIC OF  
PATENT ASSIGNEE(S): LTS Lohmann Therapie-Systeme AG, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6537571	B1	20030325
	WO 9911265		19990311
APPLICATION INFO.:	US 2000-485912		20000404 (9)
	WO 1998-EP5224		19980818

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1997-19738643	19970904

DOCUMENT TYPE: Utility  
 FILE SEGMENT: GRANTED  
 PRIMARY EXAMINER: Page, Thurman K.  
 ASSISTANT EXAMINER: Ghali, Isis  
 LEGAL REPRESENTATIVE: Hochberg, D. Peter, Vieyra, Katherine R., Mellino, Sean  
 NUMBER OF CLAIMS: 11  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)  
 LINE COUNT: 270  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 DETD . . . example. Other additives, such as, for example, silica gels having a high specific surface, may be used in order to **improve** the physical properties of the adhesive coatings, for example their **cohesion**.  
 DETD . . . produced according to Examples 1 to 3. For determination of the values so-called Franz' diffusion cells were employed, using human **epidermis**. The results show that the permeation profiles of the systems according to the invention are almost identical with those of.  
 . . .

L5 ANSWER 5 OF 16 USPATFULL on STN  
 ACCESSION NUMBER: 2002:185305 USPATFULL  
 TITLE: USE OF ELLAGIC ACID AND ITS DERIVATIVES IN COSMETICS AND DERMATOLOGY  
 INVENTOR(S): BONTE, FREDERIC, ORLEANS, FRANCE  
 SAUNOIS, ALEX, ORLEANS, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098213	A1	20020725
APPLICATION INFO.:	US 2000-508670	A1	20000328 (9)
	WO 1998-FR2098		19981001

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1997-12227	19971001
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DENNISON, SCHULTZ & DOUGHERTY, 1745 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	602	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . referred to as collagen VII, is the predominant constituent of the anchoring fibrils associated with the basal membrane joining the **epidermis** to the dermis. It is synthesized by the keratinocytes of the basal layer of the **epidermis** and to a lesser extent by the fibroblasts of the dermis, as described by R. Burgeson in the publication entitled. . .  
 SUMM . . . (1994) 102, 205-209), certain manifestations of skin ageing, such as increased delicacy of the skin and reduced ability of the **epidermis** to repair itself, might be attributable to a decrease in the synthesis of collagen VII in elderly subjects. It will. . .  
 SUMM [0011] Finally, it is also known that the dermis-**epidermis** cohesion is of prime importance for the basal populations of the

epidermal keratinocytes to have an optimum metabolism, a good. . . . good-quality, elastic and well-formed corneal layer with optimum internal hydration which respects the functionalities of the cellular layers. A good dermis-**epidermis** cohesion thus participates in the formation and maintenance of skin at metabolic equilibrium, giving it especially a good esthetic appearance.

DETD . . . of collagen VII, particularly with a view on the one hand to favoring the cohesion between the dermis and the **epidermis**, and on the other hand, at the level of the hair follicles of the scalp, to contributing towards the restoration. . . .

DETD [0014] Such compositions make it possible in particular to favor the cohesion between the dermis and the **epidermis** in persons whose skin is atonic or loose. They can also be useful in hair care for improving hair condition, . . . .

DETD . . . its salts, its metal complexes or its mono- or polyether or mono- or poly-acylated derivatives as a cosmetic agent for **improving** the **cohesion** between the dermis and the **epidermis**, said agent preferably being incorporated into a cosmetic composition comprising a cosmetically acceptable vehicle.

DETD [0016] Advantageously, the **improvement** in the **cohesion** between the dermis and the **epidermis** is realized by reinforcing the dermal-epidermal junction.

DETD [0019] Thus the compositions of the invention prove particularly useful in all applications where it is desired to **improve** the **cohesion** between the dermis and the **epidermis**.

DETD . . . composition, especially dermatological composition, for treating pathological conditions associated with a deficiency in the cohesion between the dermis and the **epidermis**, particularly conditions associated with a weakening of the dermal-epidermal junction, such as epidermolysis bullosa, or for treating manifestations or pathological. . . .

DETD [0034] The invention further relates in particular to a method of cosmetic treatment for **improving** the **cohesion** between the dermis and the **epidermis**, particularly by reinforcing the dermal-epidermal junction, for toning up the skin, for preventing or delaying the appearance of signs of. . . .

DETD . . . and its derivatives according to the invention can advantageously be used as agents for reinforcing the dermal-epidermal junction and thereby **improving** the **cohesion** between the dermis and the **epidermis**. Ellagic acid and its derivatives according to the invention can therefore advantageously be used in cosmetic "antiwrinkle", "anti-ageing" and "toning". . . .

CLM What is claimed is:

. . . . its salts, its metal complexes or its mono- or polyether or mono- or polyacylated derivatives as a cosmetic agent for **improving** the **cohesion** between the dermis and the **epidermis**, said agent being incorporated into a cosmetic composition comprising a cosmetically acceptable vehicle.

. . . . composition, especially dermatological composition, for treating pathological conditions associated with a deficiency in the cohesion between the dermis and the **epidermis**, particularly conditions associated with a weakening of the dermal-epidermal junction.

16. Method of cosmetic treatment for **improving** the **cohesion** between the dermis and the **epidermis**, particularly by reinforcing the dermal-epidermal junction, for toning up

the skin, for preventing or delaying the appearance of signs of. . .

L5 ANSWER 6 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2001:71121 USPATFULL  
TITLE: Composition for controlled and sustained transdermal administration  
INVENTOR(S): Carrara, Dario, Buenos Aires, Argentina  
PATENT ASSIGNEE(S): Permatec Technologie AG, Switzerland (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6231885	B1	20010515
APPLICATION INFO.:	US 1998-153798		19980915 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	IT 1997-MI2106	19970917
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Clardy, S. Mark	
ASSISTANT EXAMINER:	Williamson, Michael A.	
LEGAL REPRESENTATIVE:	Hedman & Costigan, PC	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 14 Drawing Page(s)	
LINE COUNT:	1654	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . systemic concentration. This formulation contains defined amounts of chemicals that minimize the barrier characteristics of the uppermost layer of the **epidermis** and provide sustained and controlled permeation rate. Said chemicals are: fatty acids such as oleic acid, palmitoleic acid, palmitic acid, . . .

DETD . . . comprises from 5.0 to 25.0% (w/w), preferably 7.0 to 15.0% (w/w) and most preferably 10.0% (w/w). Ethylcellulose, is used for **improving** and balancing the adhesive properties (adhesion and **cohesion**) is comprised from 0.1 to 5.0% (w/w), preferably 0.1 to 1.5% (w/w), and most preferably 0.3% (w/w). BHT and BHA. . .

L5 ANSWER 7 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2001:29129 USPATFULL  
TITLE: Use of potentilla erecta extract in the cosmetic and pharmaceutical field  
INVENTOR(S): Bonte, Frederic, Orleans, France  
Dumas, Marc, Orleans, France  
Chaudagne, Catherine, Vitry-Aux-Loges, France  
Meybeck, Alain, Courbevoie, France  
PATENT ASSIGNEE(S): LVMH Recherche, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6193975	B1	20010227
	WO 9819664		19980514
APPLICATION INFO.:	US 1999-297679		19990506 (9)
	WO 1997-FR1988		19971106
			19990506 PCT 371 date
			19990506 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1996-13585	19961107
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Prats, Francisco	
ASSISTANT EXAMINER:	Coe, Susan D.	
LEGAL REPRESENTATIVE:	Nath & Associates, Nath, Gary M.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
LINE COUNT:	639	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
SUMM	. . . as collagen VII, is the main constituent of the anchoring fibrils which are combined with the basal membrane, linking the <b>epidermis</b> to the dermis. It is synthesised by the keratinocytes of the basal layer of the <b>epidermis</b> , and in a lesser amount, by the fibroblasts of the dermis, as described by R.Burgeson in a publication entitled: "Type. . .	
SUMM	. . . manifestations of skin ageing, such as an increased skin fragility and a decrease in the capacities of repair of the <b>epidermis</b> , might be attributable to a reduction of the synthesis of collagen VII in aged subjects. It will be noted that. . .	
SUMM	. . . preparation of topical cosmetic or dermatological compositions.	
cares	Such compositions in particular enable promoting the cohesion between the dermis and the <b>epidermis</b> in persons having a loosened or dull skin. The compositions have also proved to be useful for hair which. . .	
SUMM	. . . characteristics, the invention relates to the use of an extract of the plant <i>Potentilla erecta</i> as cosmetic agent intended for improving the <b>cohesion</b> between the dermis and the <b>epidermis</b> by reinforcing the dermo-epidermal junction, said agent being incorporated in a cosmetic composition comprising a cosmetically acceptable vehicle.	
SUMM	Thus, the compositions of the invention prove to be particularly useful in any application in which it is sought to <b>improve</b> the <b>cohesion</b> between the dermis and the <b>epidermis</b> .	
SUMM	. . . notably a dermatological composition, intended for treating pathologies linked to a deficiency in the cohesion between the dermis and the <b>epidermis</b> , in particular those linked to a weakening of the dermo-epidermal junction.	
SUMM	. . . dermatological treatment, according to which it is sought to obtain an improvement of the junction between the dermis and the <b>epidermis</b> , by a reinforcement of the dermo-epidermal junction, or a stimulation of the synthesis of collagen VII.	
DETD	. . . anchoring fibrils, these extracts can therefore advantageously be used as an agent for reinforcing the dermo-epidermal junction, and for thus <b>improving</b> the <b>cohesion</b> between the dermis and the <b>epidermis</b> .	
CLM	What is claimed is:	
	. . . the human body selected from the group consisting of a method for improving the junction between the dermis and the <b>epidermis</b> by reinforcement of the dermo-epidermal junction and a method for stimulating the formation of collagen VII, which comprises the topical.	
	. . .	

. . . the human body selected from the group consisting of a method for improving the junction between the dermis and the **epidermis** by a reinforcement of the dermo-epidermal junction, and a method for stimulating the formation of collagen VII, which comprises the. . . .  
23. A method of cosmetic care for improving the junction between the dermis and the **epidermis** by the reinforcement of the dermo-epidermal junction, comprising the topical application to an external area of the human body of a cosmetical or pharmaceutical composition comprising as sole agent for improving the junction between the dermis and the **epidermis**, an effective amount of an extract of the plant *Potentilla erecta*, said extract being obtained by extraction with the aid. . . .

L5 ANSWER 8 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2000:34208 USPATFULL

TITLE: Lipophilic hydroxylated acid, its use in cosmetics and pharmacy, and its process of preparation

INVENTOR(S): Perrier, Eric, Vienne, France

Antoni, Daniele, Vernaison, France

Huc, Alain, Sainte fdy les Lyon, France

PATENT ASSIGNEE(S): Coletica, Lyons, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6039961		20000321
APPLICATION INFO.:	US 1998-66587		19980427 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-557154, filed on 16 Feb 1996, now patented, Pat. No. US 5869069 which is a continuation-in-part of Ser. No. US 354228		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1994-9091	19940722
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Kishore, Gollamudi S.	
LEGAL REPRESENTATIVE:	Armstrong, Westerman, Hattori, McLeland and Naughton	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	1382	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . or under the action of skin or bacterial enzymes. In addition, their affinity with respect to lipid constituents of the **epidermis** remains limited.

SUMM . . . be used as cosmetic or pharmaceutical and/or dermatological products having a greater affinity with respect to lipid constituents of

the **epidermis**, in particular the stratum corneum, which are non-irritant and which have a modifiable effectiveness.

SUMM . . . to solve the new technical problem consisting in providing a solution which makes it possible to produce new agents which **improve** skin moisturizing, elasticity and **cohesion** as well as new depigmenting agents, without significant irritant power.

SUMM . . . makes it possible to improve the subsequent penetration by other active ingredients, a stimulating activity of the cell functions, which **improves** the elasticity and the **cohesion** of the skin,

SUMM a depigmenting activity, an anti-wrinkle or anti-age activity, a moisturizing activity which makes it possible to treat. . . .  
SUMM . . . method, for cosmetic or therapeutic use, for chemical exfoliation of the skin, for stimulating the cells of the skin, for improving the elasticity and the **cohesion** of the skin, for depigmenting the skin, for moisturizing the skin, or for producing an anti-wrinkle effect on the skin, . . . .

L5 ANSWER 9 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 1999:166609 USPATFULL  
TITLE: Cosmetic or pharmaceutical, particularly dermatological, composition containing a Bertholletia extract  
INVENTOR(S): Bonte, Frederic, Orleans, France  
Dumas, Marc, Orleans, France  
Lavaud, Catherine, Tinqueux, France  
Massiot, Georges, Reims, France  
PATENT ASSIGNEE(S): LVMH Recherche, Nanterre, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6004568		19991221
APPLICATION INFO.:	US 1997-917622		19970811 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1996-FR256, filed on 16 Feb 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1996-10356	19960822
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Clardy, S. Mark	
ASSISTANT EXAMINER:	Williamson, Michael A.	
LEGAL REPRESENTATIVE:	Dennison, Meserole, Scheiner & Schultz	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1039	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM Type VII collagen is the predominant constituent of the anchoring fibrils, associated with the basement membrane, connecting the **epidermis** to the dermis. It is synthesized by the basal keratinocytes and, to a lesser extent, by the fibroblasts of the. . . .  
SUMM . . . manifestations of skin ageing, such as an increase in skin fragility and a decrease in the repair capabilities of the **epidermis**, might be attributable to a reduction in collagen VII synthesis in the elderly.  
SUMM . . . composition, which is effective in preventing or treating the effects of skin ageing and in firming the skin, or for improving healing, for improving the dermal-epidermal **cohesion**, or which is effective against free radicals or for promoting incorporation of vitamin C by skin cells.  
SUMM . . . is to promote collagen VII synthesis, the composition will prove particularly useful in all applications where it is desired to improve the epidermal-dermal **cohesion**. This may involve in particular an anti-wrinkle product or a product for combating actinic ageing of the skin, i.e. ageing. . . .

DETD . . . is therefore to strengthen the structure and properties of the epidermal-dermal junction, an exchange zone between the dermis and the **epidermis** and a very important zone for the keratinocyte differentiation processes.

L5 ANSWER 10 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 1999:18741 USPATFULL  
TITLE: Lipophilic hydroxylated acid, its use in cosmetics and pharmacy, and its process of preparation  
INVENTOR(S): Perrier, Eric, Vienne, France  
Antoni, Daniele, Vernaison, France  
Huc, Alain, Sainte FDY les Lyon, France  
PATENT ASSIGNEE(S): Coletica, Lyons, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5869069		19990209
	WO 9603110		19960208
APPLICATION INFO.:	US 1996-557154	19960216 (8)	
	WO 1995-FR984	19950721	
		19960216	PCT 371 date
		19960216	PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-354228, filed on 12 Dec 1994, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1994-9091	19940722
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Kishore, Gollamudi S.	
LEGAL REPRESENTATIVE:	Armstrong, Westerman, Hattori, McLeland & Naughton	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	1331	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . or under the action of skin or bacterial enzymes. In addition, their affinity with respect to lipid constituents of the **epidermis** remains limited.

SUMM . . . be used as cosmetic or pharmaceutical and/or dermatological products having a greater affinity with respect to lipid constituents of

the **epidermis**, in particular the stratum corneum, which are non-irritant and which have a modifiable effectiveness.

SUMM . . . to solve the new technical problem consisting in providing a solution which makes it possible to produce new agents which **improve** skin moisturizing, elasticity and **cohesion** as well as new depigmenting agents, without significant irritant power.

SUMM . . . makes it possible to improve the subsequent penetration by other active ingredients, a stimulating activity of the cell functions, which **improves** the elasticity and the **cohesion** of the skin, a depigmenting activity, an anti-wrinkle or anti-age activity,

a moisturizing activity which makes it possible to treat. . .

SUMM . . . method, for cosmetic or therapeutic use, for chemical exfoliation of the skin, for stimulating the cells of the skin, for **improving** the elasticity and the **cohesion** of the skin,

for depigmenting the skin, for moisturizing the skin, or for producing an anti-wrinkle effect on the skin, . . .

CLM What is claimed is:

. . . activity is a treatment selected from the group consisting of a treatment for stimulating the skin cells, a treatment for **improving** the elasticity and the **cohesion** of the skin, a method for depigmenting the skin and a method for performing an anti-wrinkle effect of the skin.

. . .

L5 ANSWER 11 OF 16 USPATFULL on STN

ACCESSION NUMBER: 1998:28112 USPATFULL

TITLE: N-acyl-ethylene triacetic composition for treating abnormal keratinization

INVENTOR(S): Ptchelintsev, Dmitri, Mahwah, NJ, United States

PATENT ASSIGNEE(S): Avon Products, Inc., Suffern, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5728733		19980317
APPLICATION INFO.:	US 1996-762716		19961210 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-549419, filed on 27 Oct 1995, now patented, Pat. No. US 5621008		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Cook, Rebecca		
LEGAL REPRESENTATIVE:	Hopgood, Calimafde, Kalil & Judlowe, LLP		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
LINE COUNT:	402		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM Abnormal keratinization is associated with the stratum corneum layer of the **epidermis**. The stratum corneum layer is composed of clear, dead squamous epithelial cells called corneocytes. Abnormal keratinization often appears as areas. . .

SUMM . . . magnification. Whatever the ideology, the buildup of keratin is often undesirable, and a need exists in the art for an **improved** method of decreasing **cohesion** of corneocytes and promoting exfoliation of the cornified layers from the stratum corneum.

L5 ANSWER 12 OF 16 USPATFULL on STN

ACCESSION NUMBER: 97:93890 USPATFULL

TITLE: Use of a simaba extract to reduce patchy skin pigmentation, enhance the protective function of the skin or prepare a skin cell culture medium and resulting composition

INVENTOR(S): Bonte, Frederic, Courbevoie, France

Meybeck, Alain, Courbevoie, France

Dumas, Marc, Colombes, France

PATENT ASSIGNEE(S): LVMH Recherche, Nanterre, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5676949		19971014
	WO 9413259		19940623

APPLICATION INFO.:	US 1995-448563	19950801 (8)
	WO 1993-FR1224	19931210
		19950801 PCT 371 date
		19950801 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1992-14969 FR 1993-9493	19921211 19930802
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dodson, Shelley A.	
LEGAL REPRESENTATIVE:	Larson and Taylor	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
LINE COUNT:	847	
SUMM	. . . in promoting keratinocyte differentiation and can thus be used for treating skin disorders accompanied by keratinocyte differentiation disorder. In the <b>epidermis</b> , this differentiation manifests itself in particular by a greater cell cohesion, by a regulation of the transformation of keratinocytes to. . . the skin against the external environment and to enhancement of the water barrier, which prevents excessive water loss through the <b>epidermis</b> ; in the hair follicle, this differentiation manifests itself by a regulation of the processes of keratin synthesis by the keratinocytes, . . .	
SUMM	. . . skin, especially the water barrier function, thereby producing a moisturizing effect, in particular by preventing excessive water loss through the <b>epidermis</b> , an advantageous application of which is the treatment of ichthyotic skin and the treatment of psoriatic skin, and improving the. . .	
SUMM	. . . water barrier function, thereby making it possible especially to obtain a moisturizing effect by preventing excessive water loss through the <b>epidermis</b> , hence permitting use especially for the treatment of dry skin irrespective of the degree of dryness, including ichthyotic skin and. . .	
SUMM	. . . skin or scalp to be treated, is to regulate the keratinocyte differentiation, thereby promoting the formation and restoration of an <b>epidermis</b> of good quality, especially in the stratum corneum, enhance the barrier function of the skin which protects the <b>epidermis</b> , in particular the water barrier function, and make the hair more attractive, as explained above in the context of the. . .	
SUMM	. . . cosmetic or dermatological composition according to the invention has a moisturizing capacity, especially by preventing excessive water loss through the <b>epidermis</b> , and can be intended for the treatment of dry skin, especially ichthyotic skin.	
DETD	compositions promoting the formation of a well-differentiated <b>epidermis</b> , i.e. giving a "beautiful" skin with a pleasant texture and feel;	
DETD	. . . from external aggression, for example by allergens or surfactants, on the one hand, and limiting excessive water loss through the <b>epidermis</b> , on the other;	
DETD	Cosmetic composition for maintaining a satisfactory state of hydration of the <b>epidermis</b>	
DETD	. . . to the legs after depilation. This composition makes it possible in particular to enhance the water barrier function of the <b>epidermis</b> by improving the epidermal intercellular	

cohesion. It thus enables the skin to preserve a satisfactory state of hydration.

DETD Liposomal cosmetic composition for rebalancing the desquamation of the stratum corneum of the **epidermis** and restoring a smooth **epidermis**

DETD . . . lipids, which are sources of starting material for the formulation of cosmetic or pharmaceutical compositions for topical application to the **epidermis** or scalp.

CLM What is claimed is:

. . . need of treatment selected from the group consisting of depigmentation, promoting keratinocyte differentiation, preserving or enhancing protective function of skin, **improving cohesion** of epidermal cells and improving the quality of hair, comprising delivering to said body areas an amount of a simaba. . .

L5 ANSWER 13 OF 16 USPATFULL on STN

ACCESSION NUMBER: 97:93889 USPATFULL

TITLE: Use of a simarouba extract for reducing patchy skin pigmentation

INVENTOR(S): Bonte, Frederic, Courbevoie, France  
Meybeck, Alain, Courbevoie, France  
Dumas, Marc, Colombes, France

PATENT ASSIGNEE(S): LVMH Recherche, Nanterre, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5676948		19971014
	WO 9413260		19940623
APPLICATION INFO.:	US 1995-448562		19950801 (8)
	WO 1993-FR1225		19931210
			19950801 PCT 371 date
			19950801 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1992-14968	19921211
	FR 1993-9492	19930802
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dodson, Shelley A.	
LEGAL REPRESENTATIVE:	Larson and Taylor	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
LINE COUNT:	841	

SUMM . . . in promoting keratinocyte differentiation and can thus be used for treating skin disorders accompanied by keratinocyte differentiation disorder. In the **epidermis**, this differentiation manifests itself in particular by a greater cell cohesion, by a regulation of the transformation of keratinocytes to. . . the skin against the external environment and to enhancement of the water barrier, which prevents excessive water loss through the **epidermis**; in the hair follicle, this differentiation manifests itself by a regulation of the processes of keratin synthesis by the keratinocytes. . .

SUMM . . . skin, especially the water barrier function, thereby producing a moisturizing effect, in particular by preventing excessive water loss through the **epidermis**, an advantageous application of which is

SUMM the treatment of ichthyotic skin and the treatment of psoriatic skin, and improving the. . .

SUMM . . . water barrier function, thereby making it possible especially to obtain a moisturizing effect by preventing excessive water loss through the **epidermis**, hence permitting use especially for the treatment of dry skin irrespective of the degree of dryness, including ichthyotic skin and. . .

SUMM . . . skin or scalp to be treated, is to regulate the keratinocyte differentiation, thereby promoting the formation and restoration of an **epidermis** of good quality, especially in the stratum corneum, enhance the barrier function of the skin which protects the **epidermis**, in particular the water barrier function, and make the hair more attractive, as explained above in the context of the. . .

SUMM . . . cosmetic or dermatological composition according to the invention has a moisturizing capacity, especially by preventing excessive water loss through the **epidermis**, and can be intended for the treatment of dry skin, especially ichthyotic skin.

DETD compositions promoting the formation of a well-differentiated **epidermis**, i.e. giving a "beautiful" skin with a pleasant texture and feel;

DETD . . . from external aggression, for example by allergens or surfactants, on the one hand, and limiting excessive water loss through the **epidermis**, on the other;

DETD Cosmetic composition for maintaining a satisfactory state of hydration of the **epidermis**

DETD . . . to the legs after depilation. This composition makes it possible in particular to enhance the water barrier function of the **epidermis** by **improving** the epidermal intercellular **cohesion**. It thus enables the skin to preserve a satisfactory state of hydration.

DETD Liposomal cosmetic composition for rebalancing the desquamation of the stratum corneum of the **epidermis** and restoring a smooth **epidermis**

DETD . . . lipids, which are sources of starting material for the formulation of cosmetic or pharmaceutical compositions for topical application to the **epidermis** or scalp.

CLM What is claimed is:

. . . need of treatment selected from the group consisting of depigmentation, promoting keratinocyte differentiation, preserving or enhancing protective function of skin, **improving** **cohesion** of epidermal cells and improving the quality of hair, comprising delivering to said body areas an amount of a simarouba. . .

L5 ANSWER 14 OF 16 USPATFULL on STN

ACCESSION NUMBER: 97:31730 USPATFULL  
TITLE: N-acyl-ethylene-triacetic acids  
INVENTOR(S): Ptchelintsev, Dmitri, Mahwah, NJ, United States  
PATENT ASSIGNEE(S): Avon Products, Inc., Suffern, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5621008		19970415
APPLICATION INFO.:	US 1995-549419		19951027 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Cook, Rebecca  
LEGAL REPRESENTATIVE: Hopgood, Calimafde, Kalil & Judlowe  
NUMBER OF CLAIMS: 11  
EXEMPLARY CLAIM: 1  
LINE COUNT: 427  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
SUMM Abnormal keratinization is associated with the stratum corneum layer of the **epidermis**. The stratum corneum layer is composed of clear, dead squamous epithelial cells called corneocytes. Abnormal keratinization often appears as areas. . .  
SUMM . . . magnification. Whatever the ideology, the buildup of keratin is often undesirable, and a need exists in the art for an **improved** method of decreasing **cohesion** of corneocytes and promoting exfoliation of the cornified layers from the stratum corneum.

L5 ANSWER 15 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 97:20247 USPATFULL  
TITLE: Use of an ecdysteroid for the preparation of cosmetic or dermatological compositions intended, in particular, for strengthening the water barrier function of the skin or for the preparation of a skin cell culture medium, as well as to the compositions  
INVENTOR(S): Meybeck, Alain, Courbevoie, France  
Bonte, Fr ed eric, Courbevoie, France  
Redziniak, G erard, Saint Cyr En Val, France  
PATENT ASSIGNEE(S): LVMH Recherche, Nanterre, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5609873		19970311
	WO 9404132		19940303
APPLICATION INFO.:	US 1995-393009		19950427 (8)
	WO 1993-FR819		19930820
			19950427 PCT 371 date
			19950427 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1992-10267	19920825
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Rollins, John W.	
LEGAL REPRESENTATIVE:	Lowe, Price, LeBlanc & Becker	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	792	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	. . . softer appearance, to strengthen the water barrier function of skin, and to strengthen the cohesion of the cells of the <b>epidermis</b> . This composition may also be used for improving the hair appearance. The cell medium may be used advantageously for the. .	
SUMM	. . . the skin with respect to the external environment and to strengthen the water barrier preventing excessive water loss through the	

epidermis; and, at hair follicle level, to regulate or even increase the synthesis by keratinocytes of keratin, the main constituent of. . .

SUMM . . . accompanied by a disturbance of keratinocyte differentiation, such as psoriasis, for restoring, preserving and/or strengthening the protective function of the **epidermis**, in particular through improvement or strengthening of the cornified layer and the water barrier function, thus leading to a hydrating effect, especially by preventing excessive water loss through the **epidermis**, an advantageous application of which is the treatment of ichthyotic skins as well as the treatment of psoriatic skins, and. . .

SUMM . . . strengthening of the cornified layer and the water barrier function, as well as the cohesion of the cells of the **epidermis**, or alternatively for improving the quality of hair in terms of its constitution; or for the preparation of a cell. . .

SUMM . . . to be treated, have the effect of regulating keratinocyte differentiation, thereby promoting the formation or restoration of a good quality **epidermis**, in particular in respect of the cornified layer, especially as regards its composition and its structural organization. This enables the **epidermis**, on the one hand, in particular through a strengthened cellular cohesion, to possess properties of optimal protection with respect to surrounding environments, and on the other hand to treat disorders of the **epidermis** accompanied by a disturbance of keratinocyte differentiation.

SUMM . . . to the invention make it possible, in particular, to restore, preserve and strengthen the protective skin barrier function of the **epidermis**, especially the water barrier function, and thereby to obtain, in particular, a hydrating effect by preventing excessive water loss through the **epidermis**. The compositions according to the invention may hence be advantageously used for the treatment of dry skins, irrespective of the. . .

SUMM . . . improvement of the cornified layer and the water barrier function, as well as the cohesion of the cells of the **epidermis**, or alternatively for improving the quality of hair in terms of its constitution, characterized in that it contains as active. . .

SUMM . . . or dermatological composition according to the invention displays a hydrating power, in particular by preventing excessive water loss through the **epidermis**, and can be intended for the treatment of dry skins, in particular ichthyotic skins.

DETD . . . keratinocyte differentiation, the compositions according to the invention containing an ecdysteroid, as defined above, enable a good state of the **epidermis** of "normal" skin to be maintained, in particular by maintaining its suppleness and its functional role, especially its protective barrier. . .

DETD . . . case of dry skins, especially ichthyosis, keratinocyte differentiation is imperfect, accompanied by malformation of the keratohyalin granules and desmosomes. The **epidermis** displays an abnormal keratinization, leading to a disturbance of the barrier, in particular water barrier, properties, and a loss of. . .

DETD Dermatological composition for restoring the water barrier of the **epidermis**

DETD Cosmetic composition for maintaining a satisfactory state of hydration of the **epidermis**

DETD . . . the legs after depilation. This composition makes it possible, in particular, to strengthen the cutaneous water barrier function of the

epidermis by improving epidermal intercellular cohesion. It thus enables the skin to retain a satisfactory state of hydration.

DETD Liposomal cosmetic composition for re-equilibrating the desquamation of the cornified layer of the **epidermis**, and restoring smoothness to the **epidermis**

DETD . . . cohesion of the cornified layer, and normalizes the detachment of dead cells, thereby giving them the appearance of a smoother **epidermis**.

DETD . . . mainly containing lipids, sources of starting materials for the formulation of cosmetic or pharmaceutical compositions for topical application to the **epidermis** or scalp, are recovered.

CLM What is claimed is:

1. A method of treatment selected from the group consisting of promoting the cohesion of the cells of the **epidermis**, promoting keratynocyte differentiation and improving the quality of hair constitution, comprising administering to zones of the skin and scalp in. . .

L5 ANSWER 16 OF 16 USPATFULL on STN

ACCESSION NUMBER: 93:87119 USPATFULL

TITLE: Skin cream composition

INVENTOR(S): Mausner, Jack, New York, NY, United States

PATENT ASSIGNEE(S): Chanel, Inc., New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5254331		19931019
APPLICATION INFO.:	US 1991-758768		19910912 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Ore, Dale E.		
LEGAL REPRESENTATIVE:	Farber, Michael B.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
LINE COUNT:	849		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

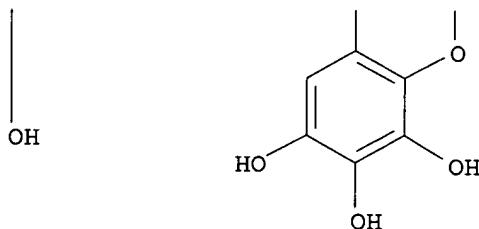
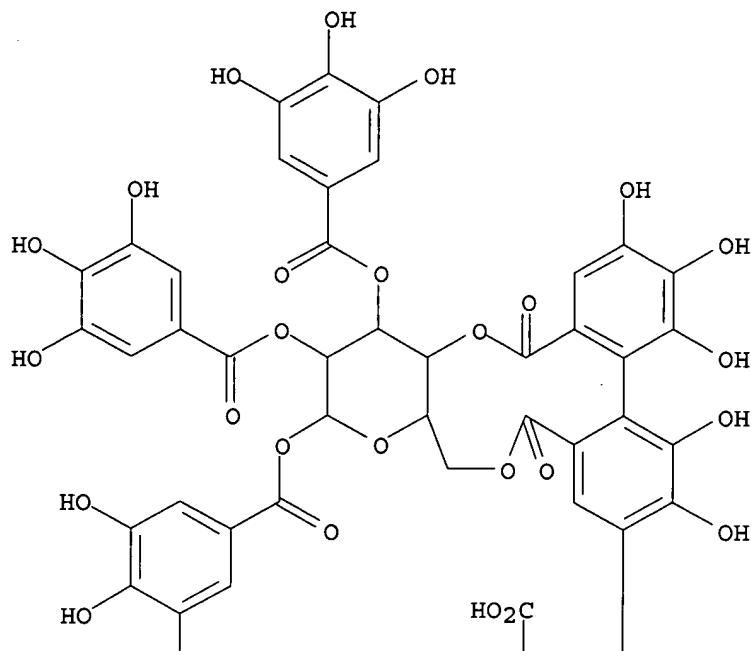
DETD . . . to stimulate the regeneration of epidermal cells and stimulate the activity of fibroblasts to produce a thickening effect of the **epidermis** similar to that seen with retinoic acid. This effect is believed to be responsible for making the skin more elastic, . . .

DETD . . . have a powerful hydrating effect, together with the ability to restructure and reinforce the barrier effect of the skin and improve the cohesion of the corneocytes. They are also believed to have an overall soothing effect and to exert a protective role against. . .

=>

L8 ANSWER 2 OF 2 USPATFULL on STN  
AN 2001:29129 USPATFULL  
TI Use of potentilla erecta extract in the cosmetic and pharmaceutical  
field  
IN Bonte, Frederic, Orleans, France  
Dumas, Marc, Orleans, France  
Chaudagne, Catherine, Vitry-Aux-Loges, France  
Meybeck, Alain, Courbevoie, France  
PA LVMH Recherche, Paris, France (non-U.S. corporation)  
PI US 6193975 B1 20010227  
WO 9819664 19980514  
AI US 1999-297679 19990506 (9)  
WO 1997-FR1988 19971106  
19990506 PCT 371 date  
19990506 PCT 102(e) date  
PRAI FR 1996-13585 19961107  
DT Utility  
FS Granted  
LN.CNT 639  
INCL INCLM: 424/195.100  
NCL NCLM: 424/725.000  
IC [7]  
ICM: A61K035-78  
EXF 424/195.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 8 USPATFULL on STN  
AN 2001:29129 USPATFULL  
TI Use of potentilla erecta extract in the cosmetic and pharmaceutical  
field  
IN Bonte, Frederic, Orleans, France  
Dumas, Marc, Orleans, France  
Chaudagne, Catherine, Vitry-Aux-Loges, France  
Meybeck, Alain, Courbevoie, France  
PA LVMH Recherche, Paris, France (non-U.S. corporation)  
PI US 6193975 B1 20010227  
WO 9819664 19980514  
AI US 1999-297679 19990506 (9)  
WO 1997-FR1988 19971106  
19990506 PCT 371 date  
19990506 PCT 102(e) date  
PRAI FR 1996-13585 19961107  
DT Utility  
FS Granted  
LN.CNT 639  
INCL INCLM: 424/195.100  
NCL NCLM: 424/725.000  
IC [7]  
ICM: A61K035-78  
EXF 424/195.1  
CAS INDEXING IS AVAILABLE FOR THIS



29 REFERENCES IN FILE CA (1967 TO DATE)  
 29 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 19 OF 38 REGISTRY COPYRIGHT 2002 ACS

RN 82744-08-9 REGISTRY

CN 1,1'-Bistannin, 1,1'-bis(acetyloxy)dodecahydro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

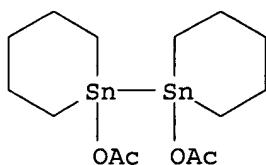
CN Bistannacyclohex-1-yl, 1,1'-bis(acetyloxy)-

CN Stannacyclohexane, bimol. deriv.

CN Stannin, bimol. deriv.

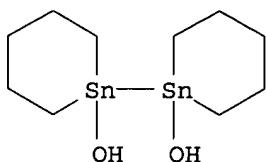
MF C14 H26 O4 Sn2

LC STN Files: CA, CAPLUS



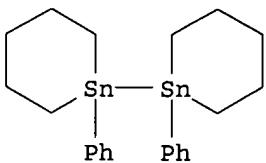
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 20 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 82744-07-8 REGISTRY  
 CN 1,1'-Bistannin, dodecahydro-1,1'-dihydroxy- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Bistannacyclohex-1-yl, 1,1'-dihydroxy-  
 CN Stannacyclohexane, bimol. deriv.  
 CN Stannin, bimol. deriv.  
 MF C10 H22 O2 Sn2  
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 21 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 82744-05-6 REGISTRY  
 CN 1,1'-Bistannin, dodecahydro-1,1'-diphenyl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Bistannacyclohex-1-yl, 1,1'-diphenyl-  
 CN Stannacyclohexane, bimol. deriv.  
 CN Stannin, bimol. deriv.  
 MF C22 H30 Sn2  
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 22 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 68989-19-5 REGISTRY \*  
 \* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN\* at an online arrow prompt (=>).

CN **Antimony, C.I. Basic Violet 1 tannin complexes** (CA INDEX NAME)  
OTHER NAMES:  
CN **Antimony, methylated 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]benzenamine tannin complexes**  
DEF The complex of antimony and tannins with the substance identified in the COLOUR INDEX by Colour Index Constitution Number, C.I. 42535.  
MF Unspecified  
CI MAN, GRS  
LC STN Files: CHEMLIST  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

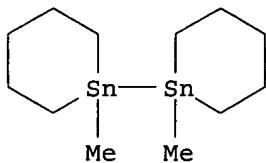
L3 ANSWER 23 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 68957-23-3 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files may result in incomplete search results. For additional information, enter HELP RN\* at an online arrow prompt (=>).  
CN **Antimony, 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-2-methylbenzenamine tannin complexes** (CA INDEX NAME)  
MF Unspecified  
CI MAN, GRS  
LC STN Files: CHEMLIST  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 24 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 68201-64-9 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files may result in incomplete search results. For additional information, enter HELP RN\* at an online arrow prompt (=>).  
CN **Tannins, sulfomethylated** (CA INDEX NAME)  
OTHER NAMES:  
CN **Tannin, sulfomethylated**  
MF Unspecified  
CI MAN, CTS  
LC STN Files: CHEMLIST  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 25 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 67373-85-7 REGISTRY  
CN **1,1'-Bistannin, dodecahydro-1,1'-dimethyl-** (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Bistannacyclohex-1-yl, 1,1'-dimethyl-  
CN Stannacyclohexane, bimol. deriv.  
CN Stannin, bimol. deriv.  
MF C12 H26 Sn2  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 26 OF 38 REGISTRY COPYRIGHT 2002 ACS

RN 56646-19-6 REGISTRY

CN SBS (tannin) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Syntan SBS

MF Unspecified

CI MAN

LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 27 OF 38 REGISTRY COPYRIGHT 2002 ACS

RN 37064-30-5 REGISTRY

CN [4,8':4',8''-Ter-2H-1-benzopyran]-3,3',3'',5,5',5'',7,7',7''-nonol,  
 2,2',2''-tris(3,4-dihydroxyphenyl)-3,3',3'',4,4',4''-hexahydro-,  
 (2R,2'R,3R,3'R,4R,4'S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN [4,8':4',8''-Ter-2H-1-benzopyran]-3,3',3'',5,5',5'',7,7',7''-nonol,  
 2,2',2''-tris(3,4-dihydroxyphenyl)-3,3',3'',4,4',4''-hexahydro-,  
 [2R-[2.alpha.,3.alpha.,4.beta.[2'R\*,3'R\*,4'S\*(2''R\*,3''R\*)]]]-

OTHER NAMES:

CN Cinnamtannin A1

CN Proanthocyanidin C1

CN Procyanidin C1

CN Procyanidol C1

FS STEREOSEARCH

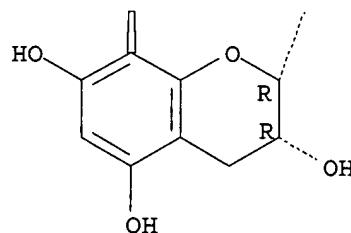
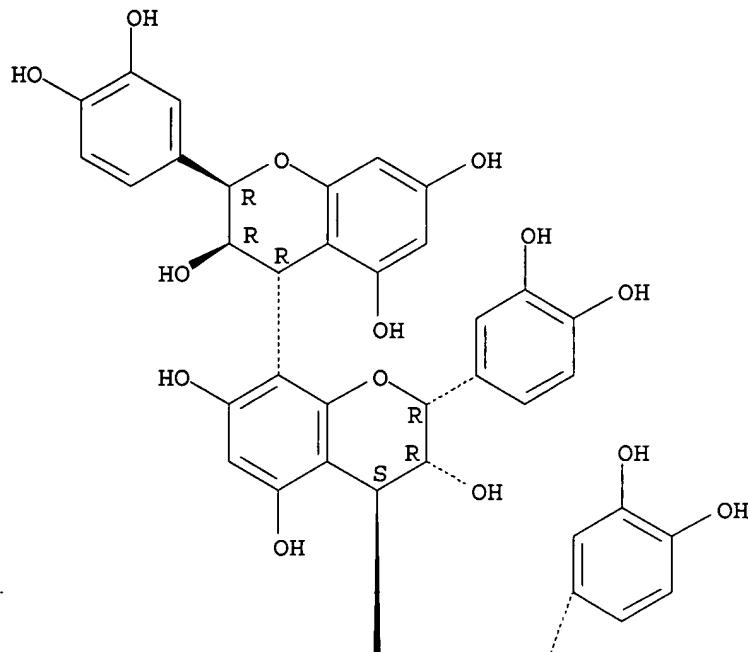
DR 65085-09-8

MF C45 H38 O18

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAPLUS, DDFU,  
 DRUGU, NAPRALERT, RTECS\*, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

167 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
167 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 28 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 9025-71-2 REGISTRY  
CN Tannase (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN E.C. 3.1.1.20  
CN Tannase S  
CN Tannin acetylhydrolase  
CN Tannin acylhydrolase  
CN Teazyme C  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,

CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT,  
IFIUDB,  
PROMT, TOXCENTER, USPATFULL  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
208 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
208 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 29 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 9010-29-1 REGISTRY  
CN Helgotan (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Tannin-formaldehyde**  
CN Tannoform  
MF Unspecified  
CI PMS, MAN  
PCT Manual registration  
LC STN Files: AGRICOLA, BIOSIS, CHEMCATS, CHEMLIST, CIN, CSCHEM, MRCK\*,  
PIRA  
(\*File contains numerically searchable property data)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 30 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 9009-66-9 REGISTRY  
CN Protan (8CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Tannin nucleoprotein**  
MF Unspecified  
CI PMS, MAN  
PCT Manual registration  
LC STN Files: BIOBUSINESS, BIOSIS, CIN, PROMT

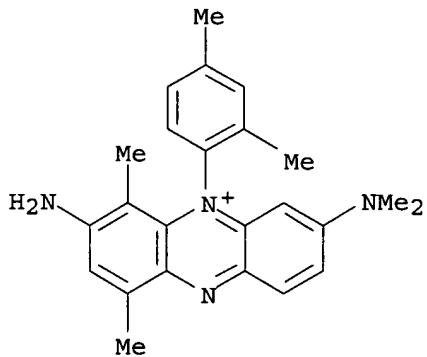
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 31 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 9006-52-4 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN Tannins, albumin complexes (CA INDEX NAME)  
OTHER NAMES:  
CN Albumin tannate  
CN Albutannin  
CN Albutannins  
CN Tannalbin  
CN Tannalbins  
CN **Tannin albuminate**  
MF Unspecified  
CI MAN, CTS  
LC STN Files: ADISNEWS, ANABSTR, BIOTECHNO, CA, CAPLUS, CHEMCATS,  
CHEMLIST,  
CSCHEM, DDFU, DRUGU, EMBASE, IPA, USAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 32 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 6837-45-2 REGISTRY  
CN Phenazinium,  
3-amino-7-(dimethylamino)-5-(2,4-dimethylphenyl)-1,4-dimethyl-  
, chloride (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Phenazinium, 3-amino-7-(dimethylamino)-1,4-dimethyl-5-(2,4-xylyl)-,  
chloride (8CI)  
CN Tannin Heliotrope (6CI)  
OTHER NAMES:  
CN C.I. 50260  
CN Girofle  
MF C24 H27 N4 . Cl  
LC STN Files: CAOLD, CHEMLIST  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (119192-43-7)



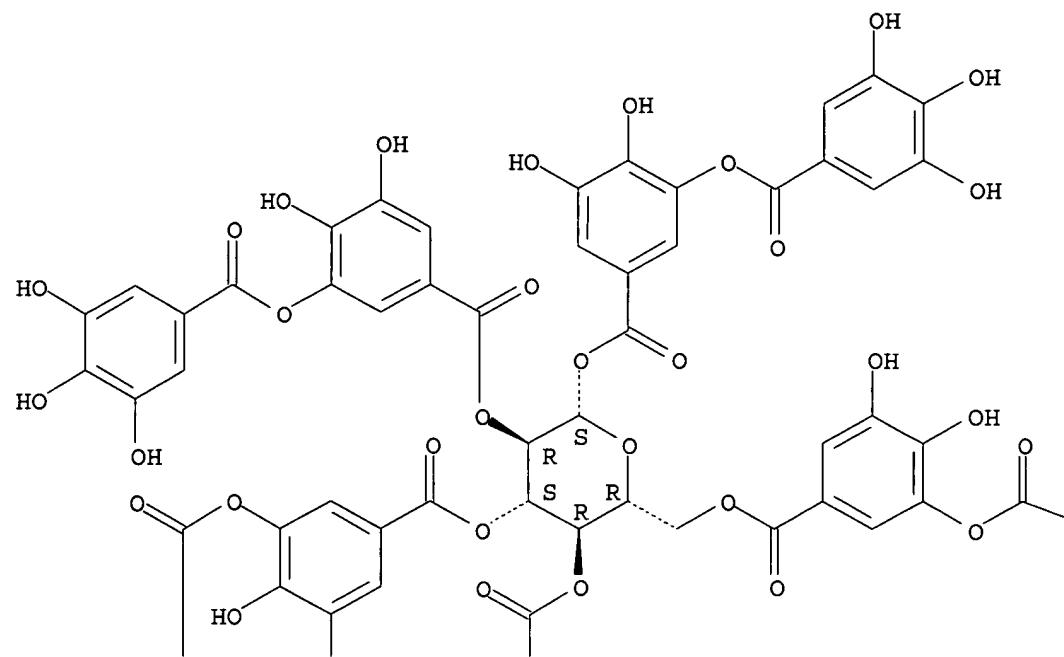
● Cl<sup>-</sup>

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

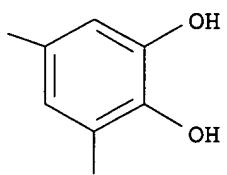
L3 ANSWER 33 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 5424-20-4 REGISTRY  
CN .beta.-D-Glucopyranose, pentakis[3,4-dihydroxy-5-[(3,4,5-  
trihydroxybenzoyl)oxy]benzoate] (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Chinese gallotannin  
CN Pentadigalloylglucose  
FS STEREOSEARCH  
DR 88196-66-1, 42804-73-9  
MF C76 H52 O46  
LC STN Files: BIOBUSINESS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,  
NIOSHTIC, USPATFULL  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

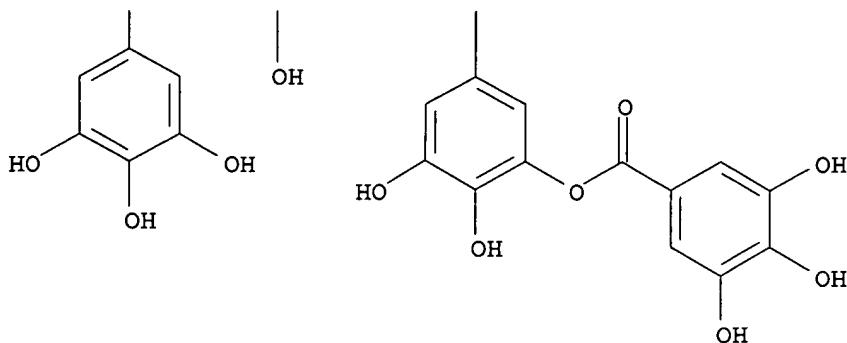
PAGE 1-A



PAGE 1-B



PAGE 2-A

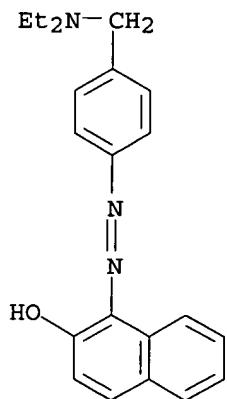


PAGE 2-B



11 REFERENCES IN FILE CA (1967 TO DATE)  
12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 34 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 1482-79-7 REGISTRY  
CN 2-Naphthalenol, 1-[[4-[(diethylamino)methyl]phenyl]azo]- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Naphthol, 1-[[.alpha.-(diethylamino)-p-tolyl]azo]- (8CI)  
OTHER NAMES:  
CN C.I. 12130  
CN Tannin Orange R  
FS 3D CONCORD  
MF C21 H23 N3 O  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 35 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 1407-83-6 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN **Cinchonan-9-ol, 6'-methoxy-, (8.alpha.,9R)-, tannin complexes**  
(CA INDEX NAME)  
OTHER NAMES:  
CN Quinine tannate  
MF Unspecified  
CI MAN, GRS  
LC STN Files: BIOSIS, CHEMLIST, USAN  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 36 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 1406-48-0 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN Tannins, aluminum salts (CA INDEX NAME)  
OTHER NAMES:  
CN Aluminum tannates  
CN **Aluminum tannin salts**  
CN Tannal  
CN Tannal insoluble  
MF Unspecified  
CI MAN, CTS  
LC STN Files: CHEMCATS

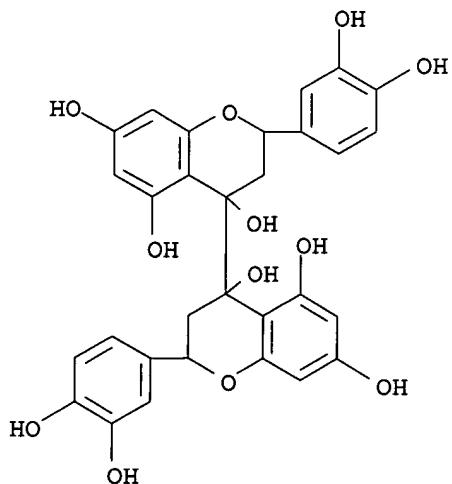
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 37 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 1401-55-4 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN Tannins (CA INDEX NAME)  
OTHER NAMES:  
CN AL  
CN **AL (tannin)**  
CN Brewtan  
CN Catechins  
CN **F-Tannin**  
CN Floctan 1  
CN Floctan 3  
CN Fresh Shiraimatsu FS 500M  
CN Gallotannic acids  
CN Gallotannins  
CN Hifix SL  
CN Hifix SLA  
CN MP-TR

CN Quertanil  
 CN **Resorcinex Pecan Tannin 9901L**  
 CN Sunlife TN  
 CN Tanal 1  
 CN Tanaphen P 500  
 CN Tanex RS 93  
 CN Tannic Acid X  
 CN Tannic acids  
 CN TW 75  
 CN Vitanil B  
 CN Vitanil IM  
 CN Weibull  
 DEF Gallic acid derivatives found in nutgalls, bark and other plant parts, especially oak bark.  
 DR 93615-37-3, 67167-65-1, 61790-06-5, 73891-88-0  
 MF Unspecified  
 CI COM, MAN, CTS  
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, RTECS\*, TOXCENTER, USAN, USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
 100 REFERENCES IN FILE CA (1967 TO DATE)  
 100 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 508-07-6 REGISTRY  
 CN [4,4'-Bi-2H-1-benzopyran]-4,4',5,5',7,7'-hexol, 2,2'-bis(3,4-dihydroxyphenyl)-3,3',4,4'-tetrahydro- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [4,4''-Biflavine]-3',3'',4,4',4'',4''',5,5'',7,7'''-decol (8CI)  
 OTHER NAMES:  
 CN **Hemlock tannin**  
 MF C30 H26 O12



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> d 1-7 ibib ab

L11 ANSWER 1 OF 7 USPATFULL  
ACCESSION NUMBER: 2002:185305 USPATFULL  
TITLE: USE OF ELLAGIC ACID AND ITS DERIVATIVES IN COSMETICS  
AND DERMATOLOGY  
INVENTOR(S): BONTE, FREDERIC, ORLEANS, FRANCE  
SAUNOIS, ALEX, ORLEANS, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098213	A1	20020725
APPLICATION INFO.:	US 2000-508670	A1	20000328 (9)
	WO 1998-FR2098		19981001

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1997-12227	19971001
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DENNISON, SCHULTZ & DOUGHERTY, 1745 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
LINE COUNT:	602	

AB The invention relates to the use of ellagic acid and its derivatives in the field of cosmetics and pharmacy, especially dermatology.

It relates more particularly to all applications where it is desired to reinforce the dermal-epidermal junction or improve hair condition by increasing the proportion of collagen VII in the presence of keratinocytes and/or fibroblasts.

In particular, these applications involve toning up the skin, reducing wrinkles or improving hair condition.

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:738287 CAPLUS  
DOCUMENT NUMBER: 135:293712  
TITLE: Skin-lightening cosmetics containing chromanol  
glycosides and other active agents  
INVENTOR(S): Ishida, Misaki; Sato, Saori; Murase, Hironobu  
PATENT ASSIGNEE(S): NOF Corporation, Japan; CCI Corp.  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001278774	A2	20011010	JP 2000-96833	20000331

OTHER SOURCE(S): MARPAT 135:293712

AB This invention relates to a skin-lightening cosmetic compn. comprising  
(1) 0.001-20 % chromanol glycosides and (2) .gtoreq. 1 agent selected from  
the group consisting of ascorbic acid, placenta exts., kojic acid,

ellagic acid, hydroquinone, retinol, tocopherol, glucosamine, azelaic acid, pyridoxine, cinnamic acid, and derivs. thereof. The compns. also moisturize the skin and provide anti-wrinkle effects. Chromanol glucosides were prep'd. by treating 2-hydroxymethyl-2,5,7,8-tetramethylchroman-6-ol with dextrin in the presence of cyclomaltodextrin glucanotransferase. A cream contained chromanol monoglucoside 3, kojic acid 1, tocopherol acetate 0.05, cetanol 3, decamethylcyclopentasiloxane 3, Na sulfite 0.05, other additives q.s., and purified water balance to 100 %.

L11 ANSWER 3 OF 7 USPATFULL

ACCESSION NUMBER: 1998:150988 USPATFULL  
 TITLE: Method of stimulating gastrointestinal motility with ellagic acid  
 INVENTOR(S): Rajagopalan, Tuticorin Govindachari, Bombay, India  
 Khambe, Deepa Ashok, Bombay, India  
 PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5843987		19981201
APPLICATION INFO.:	US 1997-999635		19971031 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-30421P	19961031 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Rose, Shep K.	
LEGAL REPRESENTATIVE:	Zea, Betty J., Howell, John M., Rasser, Jacobus C.	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
LINE COUNT:	795	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of ellagic acid for the treatment of gastrointestinal disorders by stimulating the motility of the GI tract. In particular the present invention relates to a method of treatment of constipation, heartburn, non ulcer dyspepsia, GERD, and/or esophagitis, with a pharmaceutical composition comprising a safe and effective amount of ellagic acid or pharmaceutically acceptable salts or esters thereof. Preferably the ellagic acid is administered perorally.

L11 ANSWER 4 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1991:288495 BIOSIS  
 DOCUMENT NUMBER: BR41:8915  
 TITLE: LUNG TUMORIGENICITY OF NNK GIVEN ORALLY TO A-J MICE ITS APPLICATION TO CHEMOPREVENTIVE EFFICACY STUDIES.  
 AUTHOR(S): CASTONGUAY A; PEPIN P; STONER G D  
 CORPORATE SOURCE: LAB. CANCER ETIOL. CHEMOPREVENTION, SCH. PHARM., LAVAL UNIV., QUEBEC CITY, CAN. G1K 7P4.  
 SOURCE: SYMPOSIUM ON MOUSE PULMONARY CARCINOGENESIS, RESEARCH TRIANGLE PARK, NORTH CAROLINA, USA, MARCH 27-28, 1990. EXP LUNG RES, (1991) 17 (2), 485-500.  
 CODEN: EXLRDA. ISSN: 0190-2148.  
 DOCUMENT TYPE: Conference  
 FILE SEGMENT: BR; OLD  
 LANGUAGE: English

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1  
ACCESSION NUMBER: 1991:156762 CAPLUS  
DOCUMENT NUMBER: 114:156762  
TITLE: The effects of **ellagic acid** and  
13-cis-retinoic acid on  
N-nitrosobenzylmethylamine-induced esophageal  
tumorigenesis in rats  
AUTHOR(S): Daniel, E. M.; Stoner, G. D.  
CORPORATE SOURCE: Dep. Pathol., Med. Coll. Ohio, Toledo, OH, 43699, USA  
SOURCE: Cancer Lett. (Shannon, Ireln.) (1991), 56(2), 117-24  
CODEN: CALEDQ; ISSN: 0304-3835  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB **Ellagic acid** (EA) and 13-cis-retinoic  
acid (CRA), alone and in combination, were tested for their  
ability to inhibit N-nitrosobenzylmethylamine-induced tumors in the rat  
esophagus. Male rats were fed EA (4 g/kg), CRA (240 mg/kg), or a  
combination of EA and CRA (4 g/kg and 240 mg/kg) for 25 wk. NBMA (0.5  
mg/kg per injection) was administered s.c. once a week for 15 wk starting  
in the 3rd wk. After 25 wk, the incidence of esophageal tumors was  
97-100% in NBMA-treated rats. The multiplicity of tumors in NBMA-treated  
rats was reduced by EA (60%), but not by CRA or by EA + CRA. Thus, EA  
and  
CRA do not act synergistically to inhibit NBMA-induced esophageal  
tumorigenesis.

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1991:448123 CAPLUS  
DOCUMENT NUMBER: 115:48123  
TITLE: Quantitation and liberation of **ellagic**  
acid in dietary sources, and its effects, in  
combination with 13-cis-retinoic  
acid, on the development of  
N-nitrosobenzylmethylamine-induced esophageal tumors  
in F344 rats  
AUTHOR(S): Daniel, Elaine Marie  
CORPORATE SOURCE: Med. Coll. Ohio, OH, USA  
SOURCE: (1990) 161 pp. Avail.: Univ. Microfilms Int., Order  
No. DA9107345  
DOCUMENT TYPE: From: Diss. Abstr. Int. B 1991, 51(10), 4787  
LANGUAGE: Dissertation  
English  
AB Unavailable

L11 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1990:325915 BIOSIS  
DOCUMENT NUMBER: BR39:33251  
TITLE: THE EFFECTS OF ELLAGIC ACID AND 13-CIS  
RETINOIC ACID ALONE AND IN COMBINATION ON  
N NITROSOBENZYL METHYLAMINE-INDUCED ESOPHAGEAL TUMORS IN  
RATS.  
AUTHOR(S): DANIEL E; STONER G  
CORPORATE SOURCE: MED. COLL. OHIO, TOLEDO, OHIO 43699, USA.  
SOURCE: 81ST ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER  
RESEARCH, WASHINGTON, D.C., USA, MAY 23-26, 1990. PROC AM  
ASSOC CANCER RES ANNU MEET, (1990) 31 (0), 120.  
CODEN: PAMREA.  
DOCUMENT TYPE: Conference  
FILE SEGMENT: BR; OLD

L13 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2000:706945 CAPLUS  
 DOCUMENT NUMBER: 133:271409  
 TITLE: Cosmetic or dermatological compositions containing a substance for increasing the functionality and/or expression of CD44 membrane receptors of skin cells  
 INVENTOR(S): Dumas, Marc; Bonte, Frederic  
 PATENT ASSIGNEE(S): Parfums Christian Dior, Fr.  
 SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000057836	A2	20001005	WO 2000-FR764	20000327
WO 2000057836	A3	20010517		
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2791260	A1	20000929	FR 1999-3840	19990326
EP 1165035	A2	20020102	EP 2000-915224	20000327
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			FR 1999-3840	A 19990326
			WO 2000-FR764	W 20000327

L13 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1999:783901 CAPLUS  
 DOCUMENT NUMBER: 132:26672  
 TITLE: Antiaging cosmetic composition containing a salt or a divalent metal complex  
 INVENTOR(S): Bonte, Frederic; Dumas, Marc; Heusele, Catherine; Le Blay, Jacques  
 PATENT ASSIGNEE(S): Guerlain S.A., Fr.; Le Blay, Jacques  
 SOURCE: PCT Int. Appl., 30 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9962481	A1	19991209	WO 1999-FR1261	19990528
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2779059	A1	19991203	FR 1998-6822	19980529
EP 1082098	A1	20010314	EP 1999-922237	19990528
R: CH, DE, ES, FR, GB, IT, LI				
JP 2002516838	T2	20020611	JP 2000-551738	19990528
PRIORITY APPLN. INFO.:			FR 1998-6822	A 19980529
			US 1999-297679	A2 19990506
			WO 1999-FR1261	W 19990528
REFERENCE COUNT: THIS	10	THERE ARE 10 CITED REFERENCES AVAILABLE FOR		

RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:233777 CAPLUS  
DOCUMENT NUMBER: 130:271881  
TITLE: Antiaging cosmetic compositions containing  
ellagic acid and its derivatives  
INVENTOR(S): Bonte, Frederic; Saunois, Alex  
PATENT ASSIGNEE(S): LVMH Recherche, Fr.  
SOURCE: PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9916415	A1	19990408	WO 1998-FR2098	19981001
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2768927	A1	19990402	FR 1997-12227	19971001
FR 2768927	B1	20000121		
EP 1021161	A1	20000726	EP 1998-946538	19981001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001517688	T2	20011009	JP 2000-513553	19981001
US 2002098213	A1	20020725	US 2000-508670	20000328
PRIORITY APPLN. INFO.:			FR 1997-12227	A 19971001
			WO 1998-FR2098	W 19981001
REFERENCE COUNT:	7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS FORMAT		

L13 ANSWER 4 OF 5 USPATFULL  
ACCESSION NUMBER: 2002:185305 USPATFULL  
TITLE: USE OF ELLAGIC ACID AND ITS  
DERIVATIVES IN COSMETICS AND DERMATOLOGY  
INVENTOR(S): BONTE, FREDERIC, ORLEANS, FRANCE  
SAUNOIS, ALEX, ORLEANS, FRANCE

PATENT INFORMATION:	NUMBER	KIND	DATE
US 2002098213	A1	20020725	
APPLICATION INFO.:	US 2000-508670	A1	20000328 (9)
	WO 1998-FR2098		19981001
PRIORITY INFORMATION:	NUMBER	DATE	
FR 1997-12227		19971001	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	DENNISON, SCHULTZ & DOUGHERTY, 1745 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
LINE COUNT:	602		

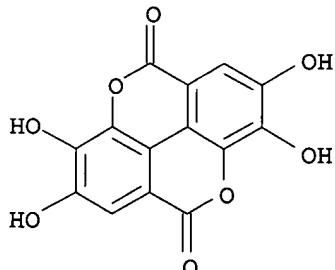
L13 ANSWER 5 OF 5 USPATFULL  
ACCESSION NUMBER: 2001:29129 USPATFULL  
TITLE: Use of potentilla erecta extract in the cosmetic and pharmaceutical field  
INVENTOR(S): Bonte, Frederic, Orleans, France  
Dumas, Marc, Orleans, France  
Chaudagne, Catherine, Vitry-Aux-Loges, France  
Meybeck, Alain, Courbevoie, France  
PATENT ASSIGNEE(S): LVMH Recherche, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6193975	B1	20010227
	WO 9819664		19980514
APPLICATION INFO.:	US 1999-297679		19990506 (9)
	WO 1997-FR1988		19971106
			19990506 PCT 371 date
			19990506 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1996-13585	19961107
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Prats, Francisco	
ASSISTANT EXAMINER:	Coe, Susan D.	
LEGAL REPRESENTATIVE:	Nath & Associates, Nath, Gary M.	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
LINE COUNT:	639	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS  
 RN 476-66-4 REGISTRY  
 CN [1]Benzopyrano[5,4,3-cde][1]benzopyran-5,10-dione, 2,3,7,8-tetrahydroxy-  
 (7CI, 8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Alizarin yellow  
 CN Alizarine Yellow  
 CN Benzoaric acid  
 CN C.I. 55005  
 CN C.I. 75270  
 CN Elagostasine  
 CN Eleagic acid  
 CN **Ellagic acid**  
 CN Gallogen  
 CN Gallogen (astringent)  
 CN Lagistase  
 CN [1,1'-Biphenyl]-2,2'-dicarboxylic acid, 4,4',5,5',6,6'-hexahydroxy-,  
 di-.delta.-lactone  
 FS 3D CONCORD  
 DR 124590-32-5, 77415-21-5  
 MF C14 H6 O8  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,  
 EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, NAPRALERT,  
 NIOSHTIC, PHAR, PIRA, PROMT, RTECS\*, SYNTHLINE, TOXCENTER, USAN,  
 USPAT2,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

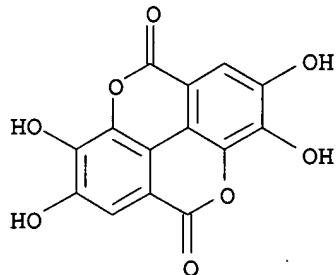


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1184 REFERENCES IN FILE CA (1967 TO DATE)  
 51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1186 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

SPATFULL

(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, WHO  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1184 REFERENCES IN FILE CA (1967 TO DATE)  
51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1186 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s tannin/cn  
L2 0 TANNIN/CN  
  
=> s tannin  
L3 38 TANNIN  
  
=> s tannic acid/cn  
L4 0 TANNIC ACID/CN

=> d 13 1-38

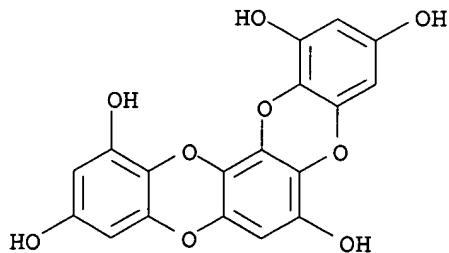
L3 ANSWER 1 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 438544-88-8 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (>).  
CN Tannins, phlorotannins (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Tannins, phloro-  
OTHER NAMES:  
CN Gallotannic acids, phloro-  
CN Gallotannins, phloro-  
CN Phenalgin  
CN **Phenalgin (phlorotannin)**  
CN Phlorotannins  
CN Tannic acids, phloro-  
MF Unspecified  
CI MAN, CTS  
SR CA

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 2 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 438544-84-4 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN Tannins, ellagittannins (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Tannins, ellagi-  
OTHER NAMES:  
CN Ellagigallotannic acids  
CN Ellagigallotannins  
CN Ellagitannic acids  
CN Ellagitannins  
CN Gallotannic acids, ellagi-  
CN Gallotannins, ellagi-  
CN Oenotan  
CN SH 10L  
CN Tannic acids, ellagi-  
CN Tannin, ellagittannins  
MF Unspecified  
CI MAN, CTS  
SR CA

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 3 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 208659-30-7 REGISTRY  
CN Benzo[1,2-b:3,4-b']bis[1,4]benzodioxin-1,3,6,10,12-pentol (9CI) (CA  
INDEX  
NAME)  
OTHER NAMES:  
CN Phlorotannin A  
FS 3D CONCORD  
MF C18 H10 O9  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 166833-80-3 REGISTRY  
CN .beta.-D-Glucopyranose, 1-(3,4,5-trihydroxybenzoate), cyclic  
2.fwdarw.2:4.fwdarw.1-ester with  
(5-carboxy-3,4-dihydro-3,7,8-trihydroxy-2-

oxo-2H-1-benzopyran-4-yl)butanedioic acid, [3S-[3. $\alpha$ ,4. $\alpha$ .(R\*)]-  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Chebulanic  
CN Terminalic acid  
CN Terminalic acid (tannin)  
MF C27 H24 O19  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
5 REFERENCES IN FILE CA (1967 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 5 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 140145-40-0 REGISTRY  
CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis[3,4-bis(acetyloxy)phenyl]-3,4-dihydro-4-[3,5,7-

tris(acetoxy)-2-[3,4-bis(acetoxy)phenyl]-3,4-dihydro-2H-1-benzopyran-8-yl]-, pentaacetate,  
[2R-[2.alpha.,3.alpha.,4.beta.(2R\*,3R\*),8.beta.,14.beta.,15R\*]]- (9CI) (CA INDEX NAME)

**OTHER NAMES:**

CN Cinnamtannin B1 peracetate

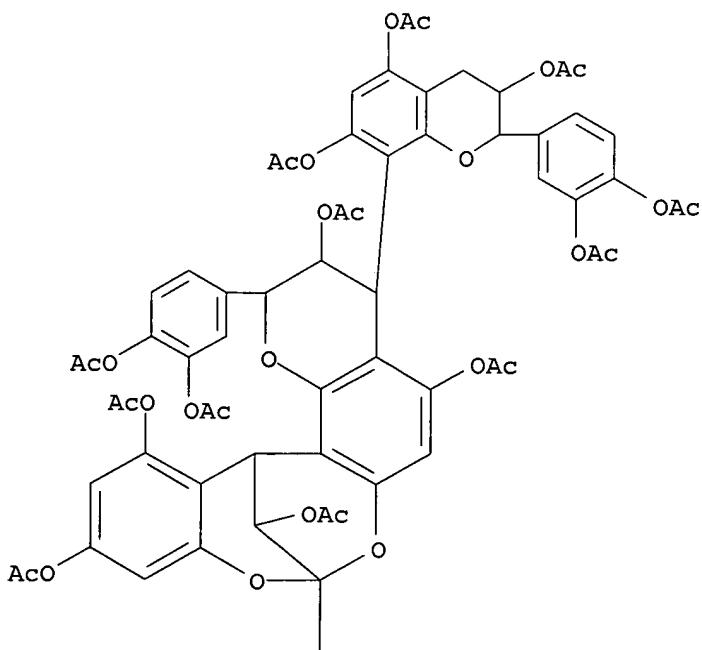
MF C73 H64 032

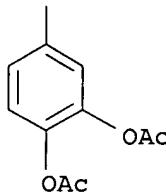
SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS

(\*File contains numerically searchable property data)

PAGE 1-A





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 6 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 135116-96-0 REGISTRY  
 CN RG tannin (9CI) (CA INDEX NAME)  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 7 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 129737-10-6 REGISTRY  
 CN Oxidase, tannin (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Tannic acid oxidase  
 CN Tannin oxidase  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 8 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 97233-47-1 REGISTRY  
 CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-10-[(2R,3R,4R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-4-yl]-4-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, (2R,3R,4S,8R,14R,15R)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:

CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-10-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-4-yl]-4-[(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-,  
 dihydro-3,5,7-trihydroxy-2H-1-benzopyran-4-yl]-4-[(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-,  
 [2R-[2.alpha.,3.alpha.,4.beta.(2R\*,3S\*),8.beta.,10(2R\*,3R\*,4R\*),14.beta.,1

5R\*]] -

OTHER NAMES:

CN Cinnamtannin D2

FS STEREOSEARCH

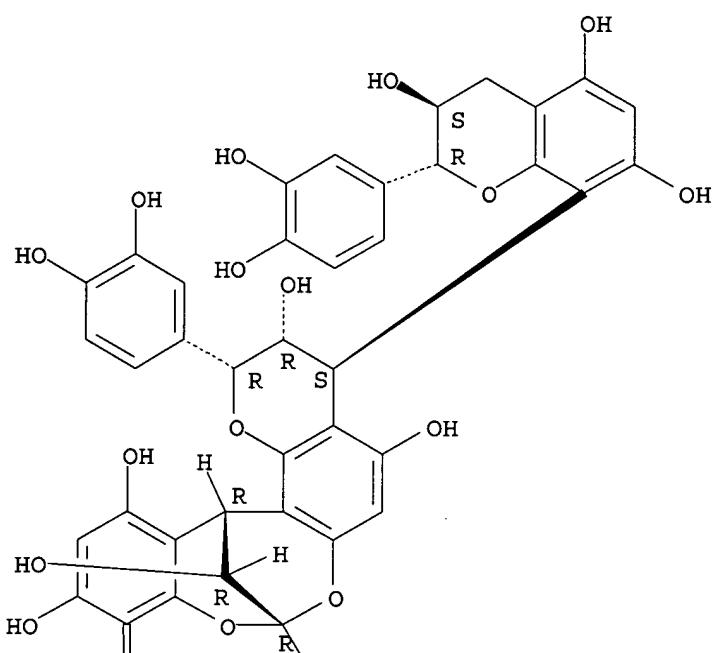
MF C60 H48 O24

LC STN Files: BEILSTEIN\*, CA, CAPLUS, NAPRALERT

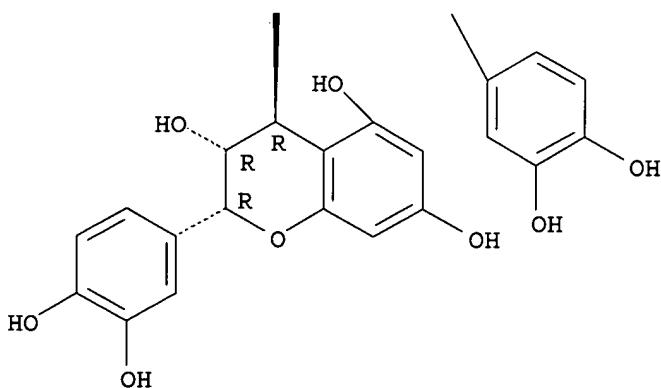
(\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



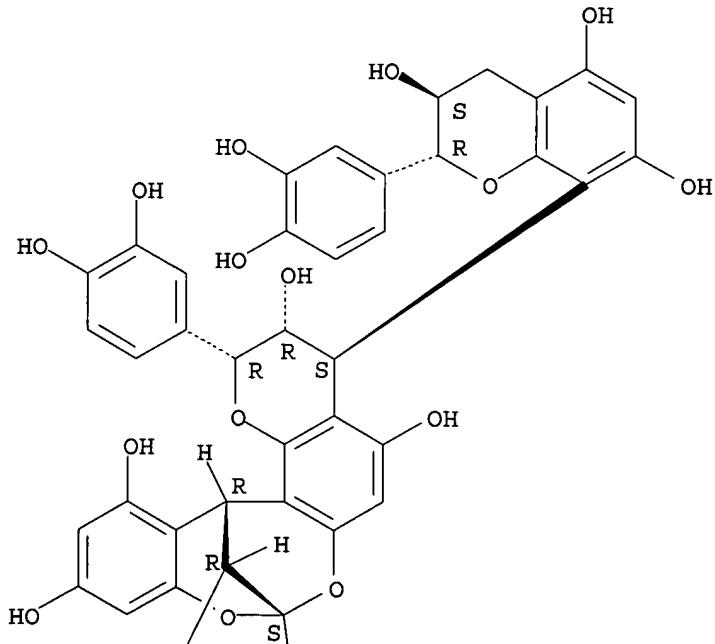
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

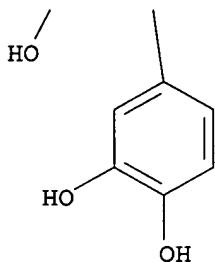
4 REFERENCES IN FILE CA (1967 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 9 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 97233-06-2 REGISTRY  
 CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-4-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, (2R,3R,4S,,8S,14R,15R)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-4-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, [2R-[2.alpha.,3.alpha.,4.beta.-(2R\*,3S\*),8.beta.,14.beta.,15R\*]]-  
 OTHER NAMES:  
 CN Cinnamtannin D1  
 FS STEREOSEARCH  
 MF C45 H36 O18  
 LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, NAPRALERT  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A





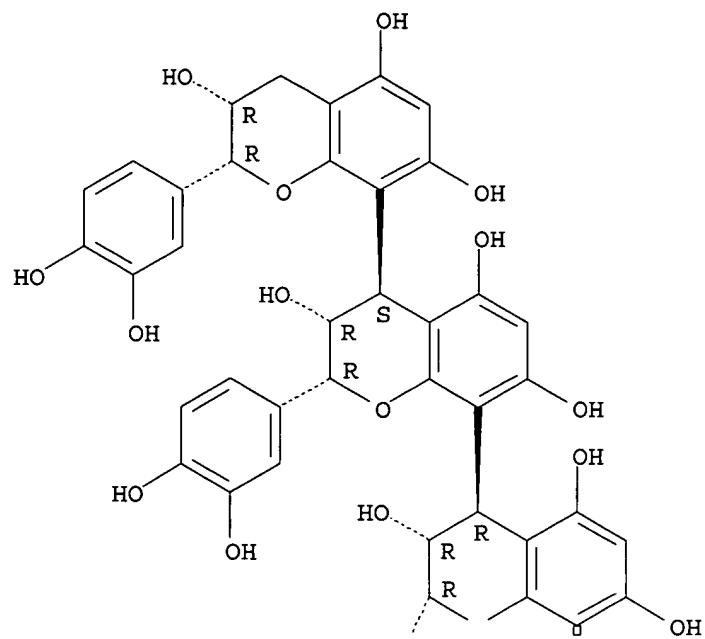
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1967 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

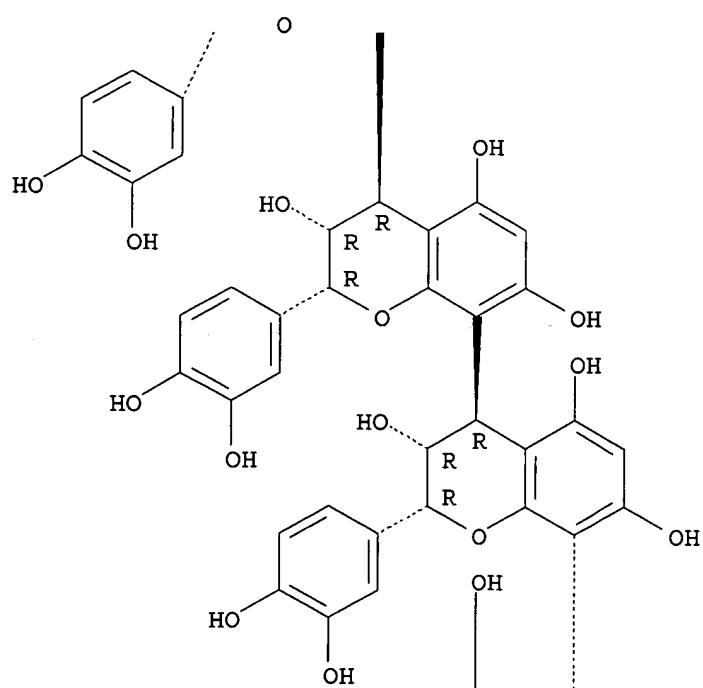
L3 ANSWER 10 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 88847-05-6 REGISTRY  
 CN [4,8':4',8":4'',8'''':4''',8''''':4''',8'''''-Sexi-2H-1-benzopyran]-  
 3,3',3'',3''',3''''',3'''''',5,5',5'',5''',5''''',5'''''',7,7',7'',7''',7''''',  
 7'''''-octadecol,  
 2,2',2'',2''',2''''',2'''''-hexakis(3,4-dihydroxyphenyl)-  
 3,3',3'',3''',3''''',3'''''',4,4',4'',4''',4''''',4'''''-dodecahydro-,  
 (2R,2'R,2''R,2'''R,2''''R,2'''''R,3R,3'R,3''R,3'''R,3''''R,3'''''R,4R,4'R,  
 4''R,4'''R,4''''S)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [4,8':4',8":4'',8'''':4''',8''''':4''',8'''''-Sexi-2H-1-benzopyran]-  
 3,3',3'',3''',3''''',3'''''',5,5',5'',5''',5''''',5'''''',7,7',7'',7''',7''''',  
 7'''''-octadecol,  
 2,2',2'',2''',2''''',2'''''-hexakis(3,4-dihydroxyphenyl)-  
 3,3',3'',3''',3''''',3'''''',4,4',4'',4''',4''''',4'''''-dodecahydro-,  
 stereoisomer  
 OTHER NAMES:  
 CN Cinnamtannin A4  
 CN Cinnamtannin III  
 FS STEREOSEARCH  
 MF C90 H74 O36  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER, USPATFULL  
 (\*File contains numerically searchable property data)

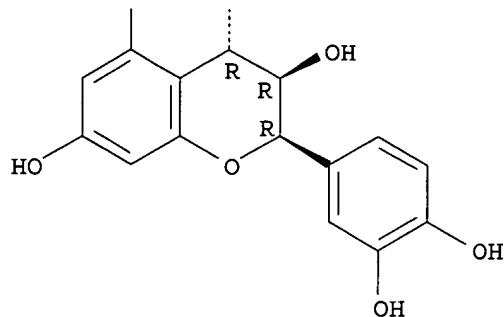
Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



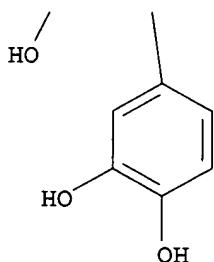
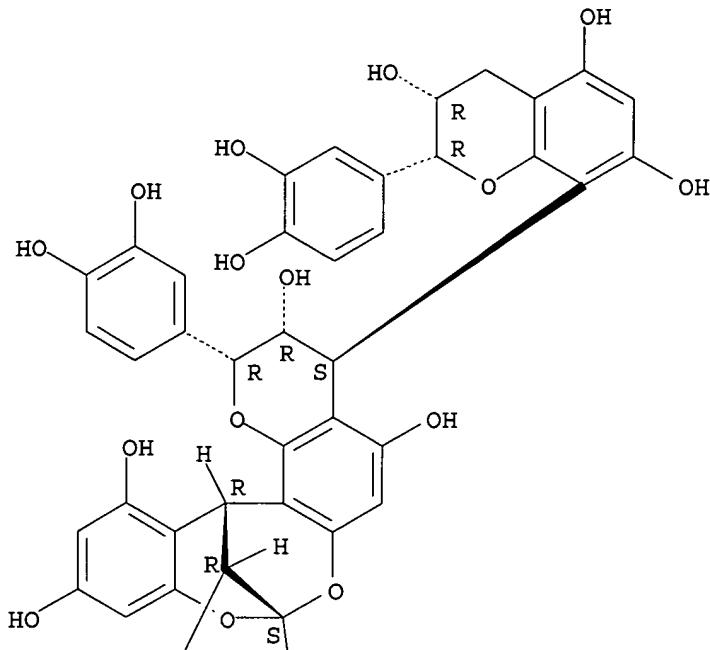


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1967 TO DATE)  
 6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 11 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 88082-60-4 REGISTRY  
 CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d] [1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-4-[(2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, (2R,3R,4S,8S,14R,15R)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d] [1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-4-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, [2R-[2.alpha.,3.alpha.,4.beta.(2R\*,3R\*),8.beta.,14.beta.,15R\*]]-  
 OTHER NAMES:  
 CN Cinnamtannin B1  
 FS STEREOSEARCH  
 DR 86588-96-7  
 MF C45 H36 O18  
 LC STN Files: BEILSTEIN\*, BIOBUSINESS, CA, CAPLUS, DDFU, DRUGU, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

22 REFERENCES IN FILE CA (1967 TO DATE)  
22 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 12 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 88038-12-4 REGISTRY  
CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-10-[(2R,3R,4R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-4-yl]-4-[(2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-, (2R,3R,4S,8R,14R,15R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 8,14-Methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 2,8-bis(3,4-dihydroxyphenyl)-10-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-4-yl]-4-[2-(3,4-dihydroxyphenyl)-

3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-,

[2R- [2.alpha.,3.alpha.,4.beta. (2R\*,3R\*),8.beta.,10(2R\*,3R\*,4R\*),14.beta.,15R\*]] -

OTHER NAMES:

CN Cinnamtannin B2

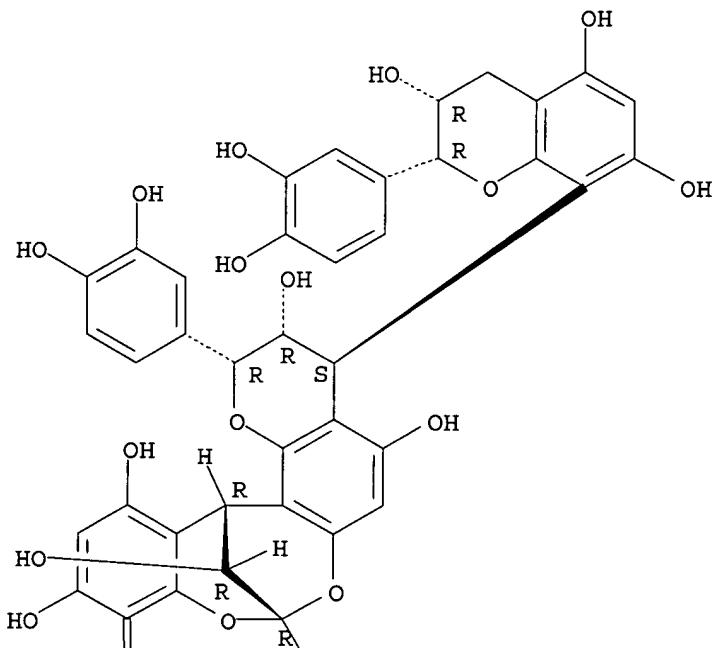
FS STEREOSEARCH

MF C60 H48 O24

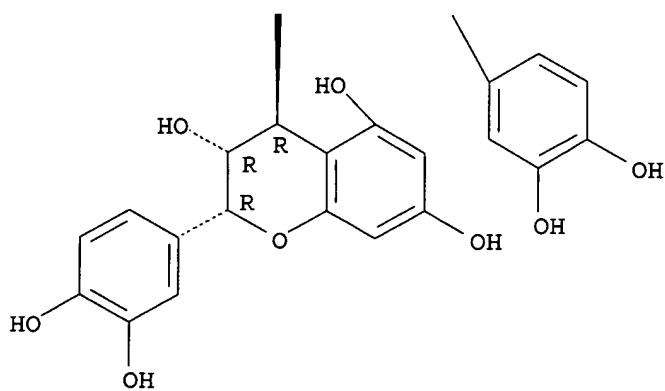
LC STN Files: AGRICOLA, BEILSTEIN\*, CA, CAPLUS, DDFU, DRUGU, TOXCENTER  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14 REFERENCES IN FILE CA (1967 TO DATE)  
14 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 13 OF 38 REGISTRY COPYRIGHT 2002 ACS

RN 86631-39-2 REGISTRY

CN [4,8':4',8'':4'',8'''':4''',8''''-Quinque-2H-1-benzopyran]-  
3,3',3'',3''',3''''',5,5',5'',5''',5''''',7,7',7'',7''',7''''-pentadecol,  
2,2',2'',2''',2''''-pentakis(3,4-dihydroxyphenyl)-  
3,3',3'',3''',3''''',4,4',4'',4''',4''''-decahydro-,  
(2R,2'R,2''R,2'''R,2''''R,3R,3'R,3''R,3'''R,3''''R,4R,4'R,4''R,4'''S)-  
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN [4,8':4',8'':4'',8'''':4''',8''''-Quinque-2H-1-benzopyran]-  
3,3',3'',3''',3''''',5,5',5'',5''',5''''',7,7',7'',7''',7''''-pentadecol,  
2,2',2'',2''',2''''-pentakis(3,4-dihydroxyphenyl)-  
3,3',3'',3''',3''''',4,4',4'',4''',4''''-decahydro-, [2R-  
[2.alpha.,3.alpha.,4.beta.[2'R\*,3'R\*,4'R\*[2''R\*,3''R\*,4''R\*[2'''R\*,  
3'''R\*,4'''S\*(2''''R\*,3''''R\*)]]]]]-

OTHER NAMES:

CN Cinnamtannin A3

CN Cinnamtannin II

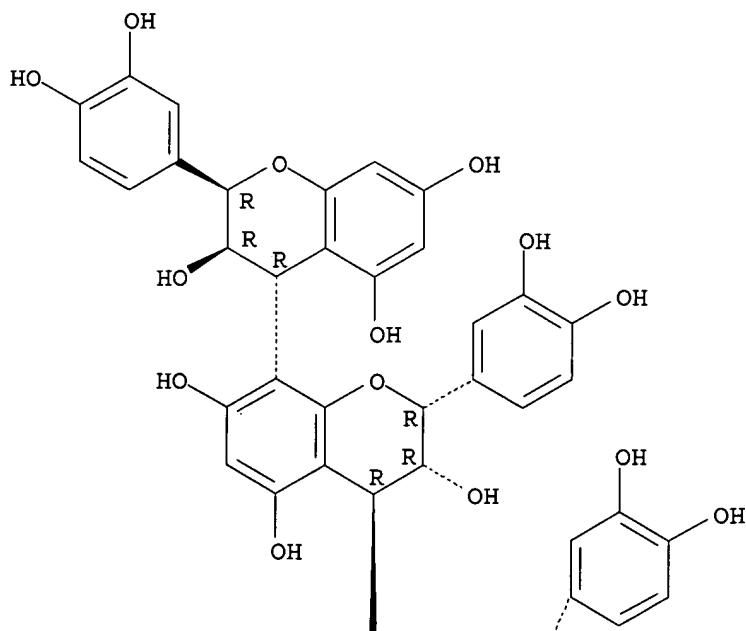
FS STEREOSEARCH

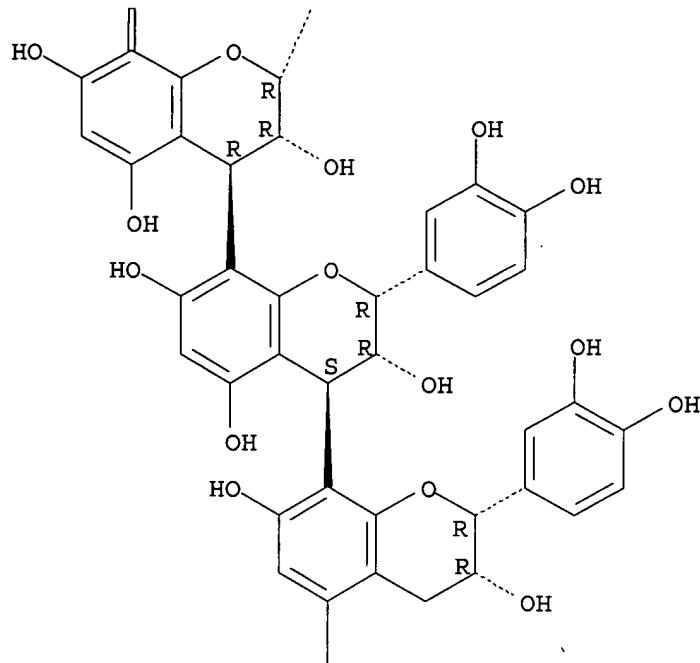
MF C75 H62 O30

LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

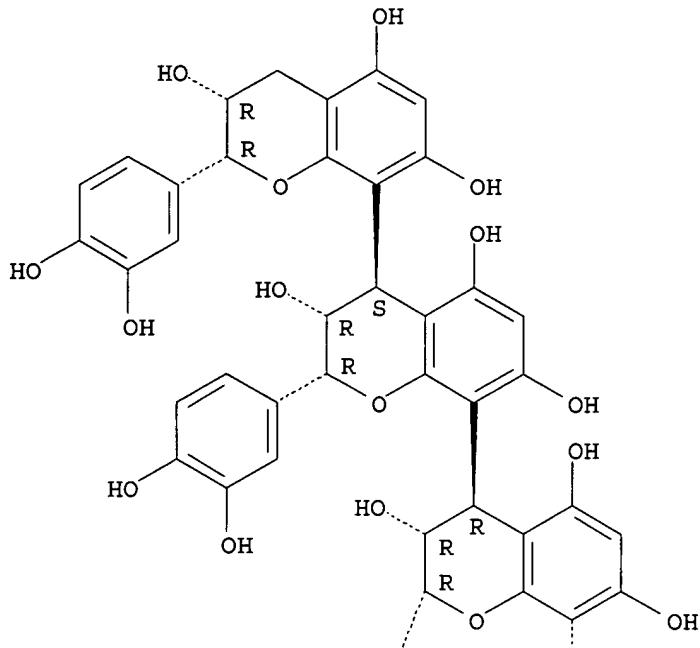
9 REFERENCES IN FILE CA (1967 TO DATE)  
 9 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 14 OF 38 REGISTRY COPYRIGHT 2002 ACS  
 RN 86631-38-1 REGISTRY  
 CN [4,8':4',8'':4'',8'''-Quater-2H-1-benzopyran]-  
 3,3',3'',3''',5,5',5'',5''',7,7',7'',7'''-dodecol, 2,2',2'',2'''-  
 tetrakis(3,4-dihydroxyphenyl)-3,3',3'',3''',4,4',4'',4'''-octahydro-,  
 (2R,2'R,2'''R,2R,3R,3'R,3''R,3'''R,4R,4'R,4''S)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN [4,8':4',8'':4'',8'''-Quater-2H-1-benzopyran]-  
 3,3',3'',3''',5,5',5'',5''',7,7',7'',7'''-dodecol, 2,2',2'',2'''-  
 tetrakis(3,4-dihydroxyphenyl)-3,3',3'',3''',4,4',4'',4'''-octahydro-,  
 stereoisomer  
 OTHER NAMES:  
 CN Cinnamtannin A2  
 CN Cinnamtannin I  
 FS STEREOSEARCH  
 DR 158112-57-3  
 MF C60 H50 O24  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

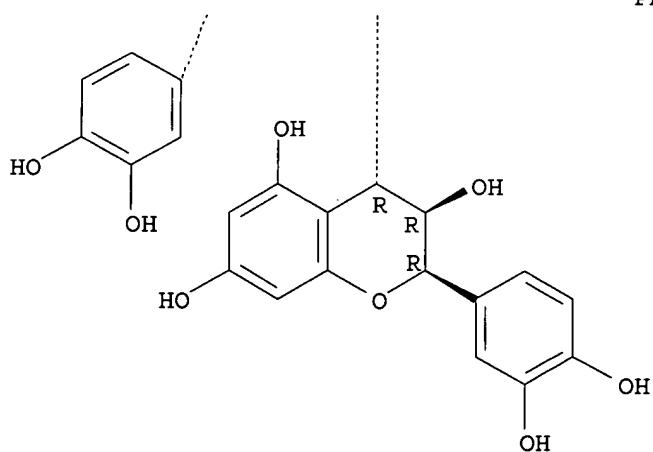
(\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

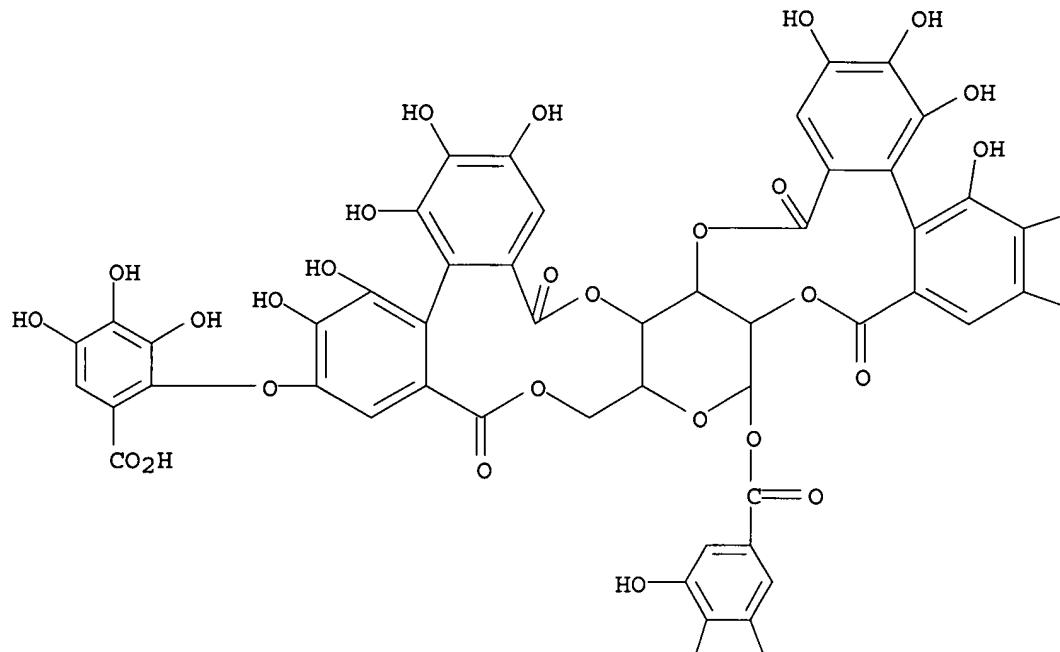
26 REFERENCES IN FILE CA (1967 TO DATE)  
26 REFERENCES IN FILE CAPLUS (1967 TO DATE)

RN 84777-04-8 REGISTRY \*  
\* Use of this CAS Registry Number alone as a search term in other STN files  
may  
result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).  
CN Antimony, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-  
naphthalenyl]methylen]-2,5-cyclohexadien-1-ylidene]-N-ethylethanaminium  
tannin complexes (CA INDEX NAME)  
MF Unspecified  
CI MAN, GRS  
SR Commission of European Communities  
LC STN Files: CHEMLIST  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L3 ANSWER 16 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 84744-50-3 REGISTRY  
CN .beta.-D-Glucopyranose, cyclic 4.fwdarw.2':6.fwdarw.2-[ (1S)-4-(6-carboxy-  
2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-  
dicarboxylate] cyclic  
2,3-[ (1S)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-  
2,2'-dicarboxylate] 1-(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN .beta.-D-Glucopyranose, cyclic  
4.fwdarw.2':6.fwdarw.2-[4-(6-carboxy-2,3,4-  
trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-  
dicarboxylate] cyclic  
2,3-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-  
dicarboxylate) 1-(3,4,5-trihydroxybenzoate), [2(S),4(S)]-  
CN Dibenzo[g,i]dibenzo[6',7':8',9'][1,4]dioxecino[2',3':4,5]pyrano[3,2-  
b][1,5]dioxacycloundecin, .beta.-D-glucopyranose deriv.  
OTHER NAMES:  
CN Rugosin C  
CN **Rugosin C (tannin)**  
MF C48 H32 O31  
LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, NAPRALERT,  
TOXCENTER  
(\*File contains numerically searchable property data)

PAGE 1-A



PAGE 1-B

—OH

—OH

PAGE 2-A



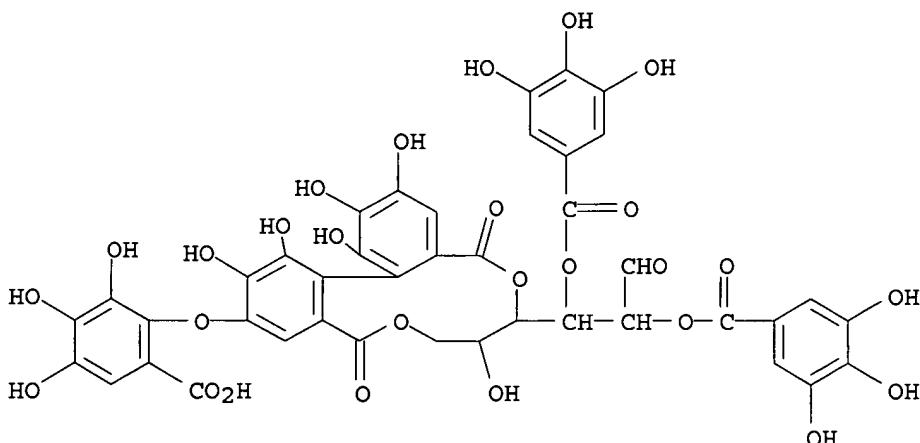
18 REFERENCES IN FILE CA (1967 TO DATE)  
18 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 17 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 84744-49-0 REGISTRY  
CN D-Glucose, cyclic 4.fwdarw.2':6.fwdarw.2-[(1S)-4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 2,3-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:

CN 7H-Dibenzo[g,i][1,5]dioxacycloundecin, D-glucose deriv.  
CN D-Glucose, cyclic 4.fwdarw.2':6.fwdarw.2-[4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 2,3-bis(3,4,5-trihydroxybenzoate), (S)-

OTHER NAMES:

CN Rugosin B  
CN **Rugosin B (tannin)**  
MF C41 H30 O27  
LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, NAPRALERT



15 REFERENCES IN FILE CA (1967 TO DATE)  
15 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 18 OF 38 REGISTRY COPYRIGHT 2002 ACS  
RN 84744-48-9 REGISTRY  
CN .beta.-D-Glucopyranose, cyclic 4.fwdarw.2':6.fwdarw.2-[ (1S)-4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 1,2,3-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN .beta.-D-Glucopyranose, cyclic  
4.fwdarw.2':6.fwdarw.2-[4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 1,2,3-tris(3,4,5-trihydroxybenzoate), (S)-  
CN Dibenzo[g,i]pyrano[3,2-b][1,5]dioxacycloundecin, .beta.-D-glucopyranose deriv.

OTHER NAMES:

CN Rugosin A  
CN **Rugosin A (tannin)**  
MF C48 H34 O31  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, DDFU, DRUGU, MEDLINE, NAPRALERT, TOXCENTER  
(\*File contains numerically searchable property data)